

January 25, 2024

3:30 pm CST

Statement of Qualifications

SOQ NO. 23-037

To Provide Professional Traffic Engineering
Services for a period of two (2) years



PIVOTAL ENGINEERING, LLC

3925 N. I-10 SERVICE ROAD W., SUITE 109R
METAIRIE, LA, 70002
OFFICE: 504-799-3653
FAX: 504-799-3654

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Section One

TEC Form for Pivotal Engineering

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**Provide Professional Traffic Engineering Services for a period of two (2) years
Resolution No.143314**

B. Firm Name & Address where Project work will be performed:



3925 N. I-10 Service Road W., Suite 109R
Metairie, LA 70002

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Avinash Mehta, PE, President

Principal-In-Charge

3925 N. I-10 Service Road W., Suite 109R
Metairie, LA 70002
Office 504-799-3653
amehta@pivotaleng.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Avinash Mehta, PE, President

Principal-In-Charge

3925 N. I-10 Service Road W., Suite 109R
Metairie, LA 70002
Office 504-799-3653
amehta@pivotaleng.com

E. Please provide the number of employees whose primary function corresponds with each category:

<u>2</u> Administrative	<u>2</u> Estimators	<u> </u> Specification Writers
<u>1</u> Architects (Licensed)	<u> </u> Geologists	<u>1</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>5</u> Civil Engineers	<u> </u> Interior Designers	<u>1</u> Project Managers
<u>8</u> Construction Inspectors	<u> </u> Landscape Architects	<u>1</u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>2</u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>3</u> Engineer Intern	<u>2</u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u>29</u> TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

H. Has this JOINT-VENTURE previously worked together? Please check:
YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. BFM Corporation, LLC 15 Veterans Memorial Blvd Metairie, LA 70062	Surveying	Yes
2. Gulf South Engineering & Testing, Inc. 15 Veterans Memorial Blvd Metairie, LA 70062	Geotechnical Engineering & Testing	Yes
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Avinash Mehta, PE; President

Project Assignment:

Professional-In-Charge

Name of Firm with which associated:



Years' experience with this Firm:

11

Education: Degree(s)/Year/Specialization:

M.S. Civil Engineering, University of Central Florida, 2003

B.S. Civil Engineering, NMU – India, 2000

Active registration: Year first registered/discipline:

Louisiana PE #35100 Civil

Other experience and qualifications relevant to the proposed Project:

Mr. Mehta serves as the Principal of Pivotal Engineering. Mr. Mehta has over 18 years of experience managing Civil and Environmental Engineering projects including project budget, schedule and scope, coordination of resources, business development and client liaison activities. His experience includes the street design, pocket park improvements, roadway enhancements, drainage studies, process and design, water and wastewater master planning, drainage design permitting, wastewater system design, potable water system design and conceptual planning and design for coastal restoration projects.

Experience includes:

Food Mart Traffic Impact Analysis at LA 16

Mr. Mehta served as the principal-in-charge for this project. Pivotal was retained to evaluate the impacts of the proposed mixed-use development on the intersection of LA 16 and LA 441, LA 1036/Livingston St @ LA 441 and LA 16 @ LA 43/Durbin Road

Waste Drop-Off Convenience Centers

Mr. Mehta served as the principal- in- charge for this project. Pivotal was retained to evaluate Hendee St. – Right Turn Lane Warrant Analysis to the newly designed Waste Drop of Facility.

TEC Professional Services Questionnaire

Clearview & Airline Intersection Improvements; Jefferson Parish, LA

Mr. Mehta serves as the principal-in-charge for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

Pritchard Rd Extension; Jefferson Parish, LA

Mr. Mehta serves as the principal-in-charge for this project. Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

- Removal and replacement of existing 20 ft wide concrete roadway with 26 ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
- Removal and replacement of existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
- Relocation of existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box designed for 10 years storm period.
- Offset existing 10" and 18" SFM both vertically and horizontally.

Bonnabel Bike Path – Metairie Rd. to Levee; Jefferson Parish, LA

Mr. Mehta serves as the principal-in-charge for this project. Pivotal Engineering was retained by Jefferson Parish to provide a drainage analysis and A/E design services for the Bonnabel Bike Path (From Metairie Rd to Levee line at Lake Pontchartrain). Pivotal Engineering staff performed a drainage analysis to calculate 10-year discharge from the contributing areas. Pivotal staff incorporated the approved scope of work into the project which included components such as Architectural, Civil and Electrical Design as well as the drainage analysis. In addition, Pivotal personnel was responsible for reviewing the topographic survey and develop final design and layout plans, grading plans, lighting plans, signage plans and specifications, as required by local, state, and/or federal agencies. The project is valued at 3 million in construction.

Labarre Rd Railroad Crossing Drainage Improvements; Jefferson Parish, LA

Mr. Mehta serves as the principal-in-charge for this project. Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Road Railroad Crossing Drainage Improvement. The major scope of the improvement included: The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp was built within Parish right of way.

Wright Rd Improvements; New Orleans, LA

Mr. Mehta serves as the principal-in-charge for this project. The project includes removing the existing street, drainage and sewer structures and designing new alignment and profile, drainage and sewer structures. He was responsible for designing horizontal and vertical roadway alignment, drainage collection systems, water line replacements, sewer line replacements, geometrics of the streets as well as preparing both capital cost estimates and construction documents.

RR016 BW Cooper, Gert Town Dixon Group C; New Orleans, LA

Mr. Mehta serves as the principal-in-charge for this project. Pivotal is currently retained by City of New

TEC Professional Services Questionnaire

Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

RR017 BW Cooper, Gert Town Dixon Group D; New Orleans, LA

Mr. Mehta serves as the principal-in-charge for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for twelve (12) blocks (4,015 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project. The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. He is responsible for project budget, schedule and scope, coordination of resources, business development and client liaison activities required for a successful completion of the project.

RR018 BW Cooper, Gert Town Dixon Group E; New Orleans, LA

Mr. Mehta serves as the principal-in-charge for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for fifteen (15) blocks (6,075 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Yoseph Shifare, PE, PTOE, PMP; Project Director
Project Assignment:
Project Manager/Sr. Civil Engineer
Name of Firm with which associated:

Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
M.S. Civil Engineering, University of Louisville, Kentucky, 2014 B.S. Civil Engineering, University of Asmara, Eritrea, 2001
Active registration: Year first registered/discipline:
2018 / Civil Engineering / LA PE # 42747 Louisiana PTOE, LA PMP
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Shifare serves as the project director of Pivotal Engineering in charge of civil/transportation projects. He has over 20 years engineering, project and construction management experience for public infrastructure as well as for industrial, commercial and private facility projects. As project director, leads and manages the day-to-day efforts of engineers on projects that include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line/grade analyses, pavement marking, intersection improvements, pedestrian/bicycle lanes/paths, excavation/embankment, traffic, drainage/storm water management, water/wastewater infrastructure and landfills. In addition, Mr. Shifare has extensive experience in hydraulic and green infrastructure project design, such as experience providing complex engineering services for hazard mitigation projects for government clients, including but not limited to detention and filtration of stormwater, open channel and pipe flow drainage systems, created wetlands structures, bioretention, and design of hydraulic control structures. He is responsible to client liaison, management of the strategic aspects of project engagement, high-level review of project deliverables, leadership, project accounting and ensuring that engineering practices meets or exceeds industry standards.</p>
Experience includes:
<u>Food Mart Traffic Impact Analysis at LA 16</u> Mr. Shifare served as the project director for this project. Pivotal was retained to evaluate the impacts of the proposed mixed-use development on the intersection of LA 16 and LA 441, LA 1036/Livingston St @ LA 441 and LA 16 @ LA 43/Durbin Road
<u>Waste Drop-Off Convenience Centers</u> Mr. Shifare served as the project director for this project. Pivotal was retained to evaluate Hendee St. – Right Turn Lane Warrant Analysis to the newly designed Waste Drop of Facility.

TEC Professional Services Questionnaire

Clearview & Airline Intersection Improvements; Jefferson Parish, LA

Mr. Shifare serves as the project director and civil engineer for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

Pritchard Rd Extension; Jefferson Parish, LA

Mr. Shifare serves as the project director and civil engineer for this project. Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

- Removal and replacement of existing 20 ft wide concrete roadway with 26 ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
- Removal and replacement of existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
- Relocation of existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box designed for 10 years storm period.
- Offset existing 10" and 18" SFM both vertically and horizontally.

Bonnabel Bike Path – Metairie Rd. to Levee; Jefferson Parish, LA

Mr. Shifare serves as the project director and civil engineer for this project. Pivotal Engineering were retained by the Jefferson Parish to provide drainage analysis, A/E design of the Bonnabel Bike Path (Metairie Rd to Levee line). Pivotal engineering staff performed a drainage analysis to calculate 10-year discharge from the identified contributing areas. Mr. Shifare serves as the Project Director / Sr. Hydraulic Engineer of the project. As Water Resources Engineer, he was responsible for the detailed planning stage, drainage analysis and innovative approaches to SWM for surface and underground BMPs and culvert crossings for 3.5-miles of the bike path, including 4 crossings and levee crossing. His designs met AASHTO and Special Protection Area requirements, while avoiding/minimizing impacts to natural resources. He also performed QA/QC reviews, including several SWM BMP retrofits, and coordinated with multiple agencies and stakeholders.

Labarre Rd Railroad Crossing Drainage Improvements; Jefferson Parish, LA

Mr. Shifare serves as the project director and civil engineer for this project. Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Road Railroad Crossing Drainage Improvement. The major scope of the improvement included: The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. Mr. Shifare ensured that the handicap ramp was built within Parish right of way.

Wright Rd Improvements; New Orleans, LA

Mr. Shifare serves as the project director and civil engineer for this project. The project includes removing the existing street, drainage and sewer structures and designing new alignment and profile, drainage and sewer structures. He was responsible for designing horizontal and vertical roadway alignment, drainage collection systems, water line replacements, sewer line replacements, geometrics of the streets as well as preparing both capital cost estimates and construction documents.

TEC Professional Services Questionnaire

RR016 BW Cooper, Gert Town Dixon Group C; New Orleans, LA

Mr. Shifare serves as the project director and civil engineer for this project. Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

RR017 BW Cooper, Gert Town Dixon Group D; New Orleans, LA

Mr. Shifare serves as the project director and civil engineer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for twelve (12) blocks (4,015 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project. The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. He is responsible for project budget, schedule and scope, coordination of resources, business development and client liaison activities required for a successful completion of the project.

RR018 BW Cooper, Gert Town Dixon Group E; New Orleans, LA

Mr. Shifare serves as the project director and civil engineer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for fifteen (15) blocks (6,075 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bassam Mekari, PE; Sr. Electrical Engineer
Project Assignment:
Sr. Electrical Engineer
Name of Firm with which associated:

Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
MS in Electrical Engineering - 3 hours remaining BS in Electrical Engineering, 1987, Louisiana State University
Active registration: Year first registered/discipline:
Licensed PE - # 31801
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Mekari serves as the principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has developed tremendous experience in designing and installing Medium and Low Voltage Electrical Distribution Systems for commercial and industrial facilities lift stations, water treatment plants, Schools, Justice Centers, Police Stations, and industrial Thermal Reactors. He also designed/built electrical sub-stations for industrial systems and supervised actual installations throughout the US and worldwide. Mr. Mekari has designed over 200 electrical projects and will be instrumental in the overall plant electrical systems design. He also developed tremendous experience in sizing VFDs, UPSs, LED lighting, Dry and Liquid-Fill Transformers, Motors, Medium and Low Voltage Grounding Systems, Panelboards and Switch Gears, ATs, Back Up Generators and possesses hands on field installations' experience and construction administration. Mr. Mekari developed expertise is all applicable codes pertaining to his projects such as NEC, NFPA 70E, NFPA 820, UL and local codes.</p>
Experience includes:
<u>Clearview & Airline Intersection Improvements</u>
Mr. Mekari serves as the senior electrical engineer for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.
<u>Cousins Blvd Extension</u>
Mr. Mekari serves as the senior electrical engineer for this project. Pivotal was retained by Jefferson Parish to complete the Louisiana Department of Natural Resources Revolving Loan Fund Application for the Extension

TEC Professional Services Questionnaire

of Cousins Boulevard (Woodmere Boulevard to Lapalco Boulevard) project.

Design & Drainage Improvements at Labarre Rd. Railroad Crossing

Mr. Mekari serves as the senior electrical engineer for this project. Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Road Railroad Crossing Drainage Improvement. The major scope of the improvement included: The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp was built within Parish right of way.

Pritchard Road Extension

Mr. Mekari serves as the senior electrical engineer for this project. Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

- Removal and replacement of existing 20 ft wide concrete roadway with 26 ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
- Removal and replacement of existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
- Relocation of existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box designed for 10 years storm period.
- Offset existing 10" and 18" SFM both vertically and horizontally.

Drainage Improvements to 14th Street; Jefferson Parish, LA

Mr. Mekari serves as the senior electrical engineer for this project. Overall, the project goal is to improve the drainage network along 14th Street. Project scope items include the following: construction of new sidewalks and ADA ramps, replacement of pavement and driveways, adjustment of required sewer connections, adjustment of identified water lines and the construction of a new outfall for the canal.

Planters Drainage Pump Station

Mr. Mekari serves as the senior electrical engineer for this project. Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services includes the removal and replacement of diesel engines, exhaust silencers, process controls and instrumentations, miscellaneous piping and electrical, installation of air-cooled heat exchangers, and refurbishment of gear box for drainage pumps of No. 1, 2, 3 and 4.

N. Arnoult Drainage Pump Station Improvements; Jefferson Parish, LA

Mr. Mekari serves as the senior electrical engineer for this project. Pivotal is retained by Jefferson Parish under a prime consultant of Hartman Engineering, Inc for a design and construction management of N. Arnoult Drainage Pump Station Improvements. The scope of the project includes the demolishing of existing building, replacing 2 existing vertical turbine pumps with 2 new 25 HP pumps, replacing existing pump control with VFD, ATS and associated electrical upgrades, SCADA, and replacing 100KW diesel generator with sound enclosures and fuel tank.

Wright Road Improvements; New Orleans, LA

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New

TEC Professional Services Questionnaire

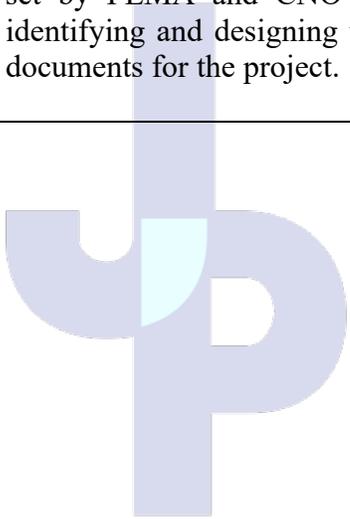
Orleans East. Mr. Mekari serves as the senior electrical engineer for this project. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

France Road North Improvements

Mr. Mekari serves as the senior electrical engineer for this project. Pivotal provided design & construction administration services for France Road. The project included 1.5 miles of full roadway reconstruction design. The scope of this project was to remove and replace roadway & drainage improvements.

RR 016-019 Improvements

Mr. Mekari serves as the senior electrical engineer for this project. Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Jefferson
Parish
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Terry Elnaggar, PE; Sr. Civil/Environmental Engineer

Project Assignment:

Sr. Civil Engineer

Name of Firm with which associated:



Years' experience with this Firm:

11

Education: Degree(s)/Year/Specialization:

MS / 1988 / Civil and Environmental Engineering / Univ. of California, Berkley

BS / 1985 / Civil Engineering / Louisiana State University

Active registration: Year first registered/discipline:

LA PE #23832 – Civil/Environmental

Other experience and qualifications relevant to the proposed Project:

Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His 30 years of experience includes project management and design work in roadways, drainage, sewer, earthen levees, floodwalls, floodgates and pump stations. He has performed multiple engineering projects for public and private clients on the local, state and federal level. He has served as Project Design Manager for numerous projects including, pavement widening and rehabilitation work. He takes a hands-on approach to successfully managing the design, QA/QC, stakeholder coordination, discipline leads, and schedule management. He has managed and prepared design-build construction plans, utility coordination, drainage, stormwater management, right-of-way plats, complex E&SC, environmental documentation/permitting, and environmental mitigation/restoration. He has also served on the construction program management side with both municipal, and industrial clients, providing oversight of projects designed by other consultants, providing design reviews and coordination between the consultant and the multiple other agencies involved. His experience includes design and construction management for civil and environmental projects including municipal and industrial solid waste permitting, risk assessments, water permitting and compliance, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, permitting, and waste treatment system design.

Experience includes:

[Clearview & Airline Intersection Improvements; Jefferson Parish, LA](#)

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

TEC Professional Services Questionnaire

Pritchard Rd Extension; Jefferson Parish, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

- Removal and replacement of existing 20 ft wide concrete roadway with 26 ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
- Removal and replacement of existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
- Relocation of existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box designed for 10 years storm period.
- Offset existing 10” and 18” SFM both vertically and horizontally.

Bonnabel Bike Path – Metairie Rd. to Levee; Jefferson Parish, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal Engineering was retained by Jefferson Parish to provide a drainage analysis and A/E design services for the Bonnabel Bike Path (From Metairie Rd to Levee line at Lake Pontchartrain). Pivotal Engineering staff performed a drainage analysis to calculate 10-year discharge from the contributing areas. Pivotal staff incorporated the approved scope of work into the project which included components such as Architectural, Civil and Electrical Design as well as the drainage analysis. In addition, Pivotal personnel was responsible for reviewing the topographic survey and develop final design and layout plans, grading plans, lighting plans, signage plans and specifications, as required by local, state, and/or federal agencies. The project is valued at 3 million in construction.

Labarre Rd Railroad Crossing Drainage Improvements; Jefferson Parish, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Road Railroad Crossing Drainage Improvement. The major scope of the improvement included: The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp was built within Parish right of way.

Wright Rd Improvements; New Orleans, LA

Mr. Elnaggar served as the Project Engineer for the design of Wright Road located in New Orleans East. The project included subsurface drainage, roadway paving, curb and gutter, utility’s location and relocation, sidewalks. Mr. Elnaggar was responsible for coordination and oversight of all engineering and design tasks, and construction management for this project. Mr. Elnaggar also ensured all design guidelines were followed, the project remained within budget, milestone dates were met, and the needs and concerns of the client were addressed. The project was valued at \$9 million.

RR016 BW Cooper, Gert Town Dixon Group C; New Orleans, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

TEC Professional Services Questionnaire

RR017 BW Cooper, Gert Town Dixon Group D; New Orleans, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for twelve (12) blocks (4,015 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project. The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. He is responsible for project budget, schedule and scope, coordination of resources, business development and client liaison activities required for a successful completion of the project.

RR018 BW Cooper, Gert Town Dixon Group E; New Orleans, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for fifteen (15) blocks (6,075 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

RR019 BW Cooper, Gert Town Dixon Group F; New Orleans, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for six (6) blocks (2,100 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

RR138 Plum Orchard-West Lake Forest Group B; New Orleans, LA

Mr. Elnaggar serves as the Sr. Civil Engineer for this project. Pivotal was retained by City of New Orleans for repaving the asphalt roadway from curb-to-curb, replacing damaged portions of concrete with new concrete, patching the roadway with asphalt, repairing damaged sidewalks and driveway aprons, installing ADA compliant curb ramps at intersections, and replacing/repairing damaged underground water, sewer and/or drainage lines.

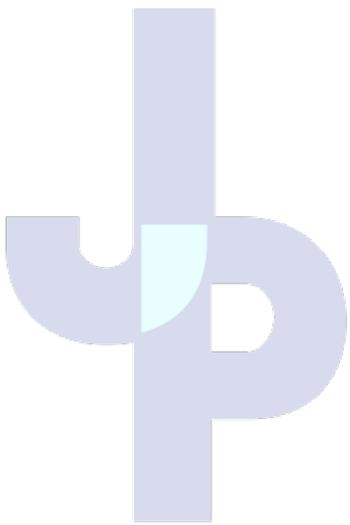
TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	James Amodeo, PE; Sr. Mechanical Engineer
Project Assignment:	Mechanical Engineer
Name of Firm with which associated:	
Years' experience with this Firm:	11
Education: Degree(s)/Year/Specialization:	BS / 1994 / Mechanical Engineering
Active registration: Year first registered/discipline:	LA PE #36489 – Mechanical - 2011
Other experience and qualifications relevant to the proposed Project:	<p>Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. Mr. Amodeo has more than 20 years of experience in the analysis, design and project construction management for various types of building mechanical systems, plumbing design, and code compliance.</p> <p>Working on more than 20 FEMA projects post Katrina, Mr. Amodeo has developed tremendous FEMA experience and reviewing PWs and providing cost estimates.</p> <p>Mr. Amodeo will be designated as the Sr. Mechanical Engineer for this project. Mr. Amodeo will be responsible for all mechanical and plumbing design, review of all applicable code requirements, methodologies and design recommendations and schematics</p>
Experience includes:	
<u>Planters Drainage Pump Station; Jefferson Parish, LA</u>	
<p>Mr. Amodeo serves as the senior mechanical engineer for this project. Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services includes the removal and replacement of diesel engines, exhaust silencers, process controls and instrumentations, miscellaneous piping and electrical, installation of air-cooled heat exchangers, and refurbishment of gear box for drainage pumps of No. 1, 2, 3 and 4.</p>	
<u>Cleveland & Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA</u>	
<p>Mr. Amodeo served as a Sr. Mechanical Engineer for the lift station upgrades for this project. Pivotal was retained by Jefferson Parish to replace the existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drives (VFD) as well as new controls, piping, and valves. 3-15HP pumps will be replaced with 2-25Hp Pumps.</p>	

TEC Professional Services Questionnaire

N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA

Mr. Amodeo served as a Sr. Mechanical Engineer for the lift station upgrades for this project. Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the C4-1A (N. Sibley and Boone) Lift Station Rehabilitation project. The major scope of the improvement is replacement of all existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drive (VFD) as well as new controls, piping, and valves. 2-15 HP pumps will be replaced.



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TEC Professional Services Questionnaire

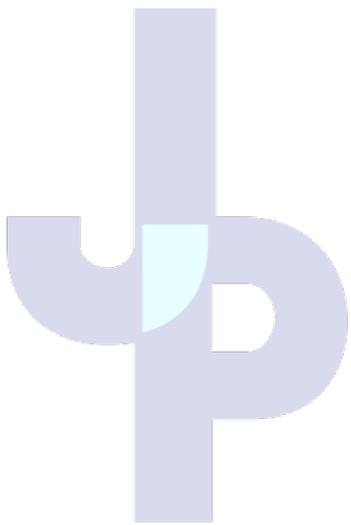
KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Bryan B. Smith, PE; Environmental Engineer	
Project Assignment:	
Construction Manager	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
6	
Education: Degree(s)/Year/Specialization:	
MS / 2014 / Civil and Environmental Engineering	
BS / 2011 / Environmental Engineering	
Active registration: Year first registered/discipline:	
Louisiana PE #43843 - ENV	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Smith serves as a senior environmental engineer and construction manager with Pivotal Engineering. Mr. Smith has more than eight (8) years of experience with the public works and environmental project types, including the design of subsurface utilities and roadways. He is well-rounded in technical approaches for the design, site inspection and coordination of municipal infrastructure projects.</p> <p>Additionally, he is well established in both state and federal regulations for water quality, NPDES compliance and SWPPP preparation. His projects include both public and private sector that require his time in both the office and the field.</p>	
Experience includes:	
<u>Plum Orchard -West Lake Forest Group B; New Orleans, LA</u>	
Mr. Smith performed the design services for the RR3 Plum Orchard/West Lake Forest Group B project. Scope of work included photographic documentation of existing conditions, FEMA-eligible repairs and additional repairs for considerations as well as designing eligible improvements in AutoCAD Civil3d. Additional tasks included revisions to drawings for adherence to CNO, SWBNO and FEMA guidelines.	
<u>Bonnabel Bike Path; Jefferson Parish, LA</u>	
Mr. Smith performed scoping phase services for the Bonnabel Bike Path project. As this project was developed to increase community access to quality-of-life resources (Lake Pontchartrain as well as nearby open-space places), maximum attention was given to the configuration of the bike path along Bonnabel Street. Existing trees were integrated into the design as well as standard traffic control devices.	
<u>France Road North; New Orleans, LA</u>	
For this project, Mr. Smith assisted with the scoping phase, including site documentation, identification of critical improvements and determination of the extent of drainage/roadway modifications. Pivotal performed	

TEC Professional Services Questionnaire

design & construction administration services for France Rd. The project included 1.5 miles of full roadway reconstruction design. The scope of this project was to remove and replace roadway & drainage improvements.

Water Effectiveness in Broadmoor; New Orleans, LA

For this project, Mr. Smith reviewed the design drawings, managed geotechnical soil investigation and performed water quality testing for on-site, pre-construction conditions. His knowledge of green infrastructure design, water quality requirements for such installations and generation construction experienced allowed him to positively impact the project and ensure that the tasks were completed on time.



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TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Eliot Guerin, PE; Civil Project Engineer	
Project Assignment:	
Civil Engineer	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
4	
Education: Degree(s)/Year/Specialization:	
2018 / Civil Engineering	
Active registration: Year first registered/discipline:	
LA PE #0047729 / 2023 / Civil Engineering	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Guerin is a civil designer with over three (3) years of experience at Pivotal Engineering. Throughout this time, he has focused on design of roadways, sanitary sewer systems and storm drainage collection systems (including applicable green infrastructure components) More specifically, he is well-established in traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater, and landfills. He is a very competent design engineer with strong skillset in hydraulic & hydrologic modeling and AutoCAD Civil 3D.</p>	
Experience includes:	
<u>RR016 BW Cooper Gert Town Dixon Group C; New Orleans, LA</u>	
<p>Mr. Guerin serves as a civil designer for this project. The project includes the rehabilitation of nine (9) blocks of roadway (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. Mr. Guerin is responsible for designing horizontal and vertical roadway alignment, drainage collection systems, water line replacements, sewer line replacements, geometrics of the streets as well as preparing both capital cost estimates and construction documents.</p>	
<u>RR017 BW Cooper Gert Town Dixon Group D; New Orleans, LA</u>	
<p>Mr. Guerin serves as a civil designer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for twelve (12) blocks (4,015 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project. The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon.</p>	

TEC Professional Services Questionnaire

RR018 BW Cooper Gert Town Dixon Group E (New Orleans, LA)

Mr. Guerin serves as a civil designer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for fifteen (15) blocks (6,075 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

RR019 BW Cooper Gert Town Dixon Group F; New Orleans, LA

Mr. Guerin serves as a civil designer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for six (6) blocks (2,100 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

RR076 Lake Vista Group D; New Orleans, LA

Mr. Guerin serves as a civil designer for this project. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for five (5) blocks (1,750 ft) in the neighborhood of Lake Vista. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Bonnabel Bike Path; Metairie Rd to Levee; Jefferson Parish, LA

Mr. Guerin serves as a civil designer for this project. The project requirements included both drainage analysis and A/E design services for the Bonnabel Bike Path (Metairie Rd to Levee line). Mr. Guerin served a lead role as a Pivotal Engineering staff and performed a drainage analysis to calculate 10-year discharge from the identified contributing areas.

Wright Road Improvements; New Orleans, LA

Mr. Guerin serves as a civil designer for this project. The project includes removing the existing street, drainage and sewer structures and designing new alignment and profile, drainage and sewer structures. He was responsible for designing horizontal and vertical roadway alignment, drainage collection systems, water line replacements, sewer line replacements, geometrics of the streets as well as preparing both capital cost estimates and construction documents.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kepal Patel, EI; Electrical Project Engineer

Project Assignment:

Electrical/Roadway Designer

Name of Firm with which associated:



Years' experience with this Firm:

4

Education: Degree(s)/Year/Specialization:

BS Electrical Engineering 2019

Active registration: Year first registered/discipline:

2019 LA EI # 0034453

Other experience and qualifications relevant to the proposed Project:

Mr. Patel serves as an electrical/roadway designer for Pivotal Engineering. Mr. Patel designing experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on several JP streetlight projects and his role requires voltage drop calculations, conduit sizes, wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.

Experience includes:

Bonnabel Bike Path; Metairie Rd to Levee; Jefferson Parish, LA

Pivotal Engineering was retained by the Jefferson Parish to provide Drainage Analysis, A/E Design of the Bonnabel Bike Path (Metairie Rd to Levee line). Pivotal engineering staff performed a drainage analysis to calculate 10-year discharge from the identified contributing areas. As this project was developed to increase community access to quality-of-life resources (Lake Pontchartrain as well as nearby open-space places), maximum attention was given to the configuration of the bike path along Bonnabel Street. Existing trees were integrated into the design as well as standard traffic control devices. Mr. Patel serves as a CAD designer on this project.

Cousins Blvd Lighting Improvements; Jefferson Parish, LA

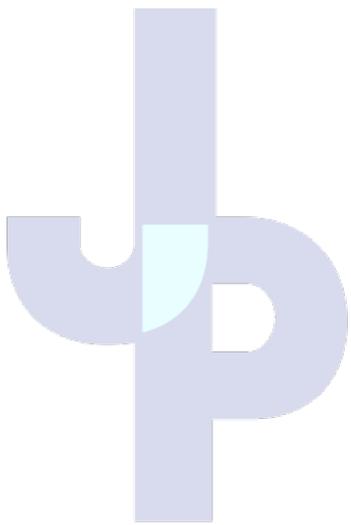
Mr. Patel's responsibilities consisted of designing, calculating voltage drop and sizing the conductor size. Additionally, he determined the locations for the power distribution in collaboration with Entergy for new pole and new transformer. For this project, he serves as one of the resident inspectors, conducting monthly progress reports and meetings, change orders, and inspections.

RR018 BW Cooper Gert Town Dixon Group E; New Orleans, LA

Mr. Patel serves as a roadway designer for this project. The project entails the roadway rehabilitation of 15 blocks in the neighborhood of B.W. Cooper, Gert Town and Dixon. Mr. Patel contributed to the design of

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horizontal and vertical roadway alignment, drainage collection systems, water line replacements, sewer line replacements, geometrics of the streets as well as preparing both capital cost estimates and construction documents.



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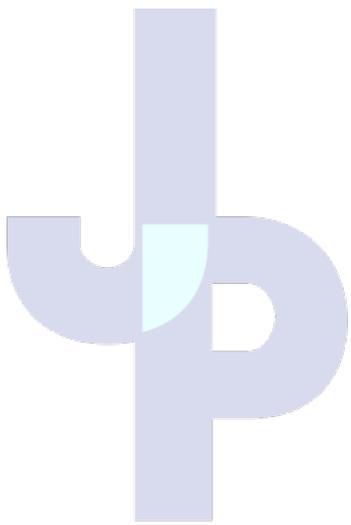
TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Javier Rondan Zambra, EI; Project Engineer
Project Assignment:
Civil Designer
Name of Firm with which associated:

Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
M.S. Civil Engineering - 2021
B.S. Civil Engineering - 2018
Active registration: Year first registered/discipline:
LA EI #035205 / 2022 / Civil Engineering
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Rondan serves as a civil project engineer with over two (2) years of experience in the transportation sector with a special focus on highway design, construction, and maintenance. He is knowledgeable in traffic engineering design and operation. He is well versed in construction scheduling, means & methods for utility installations and green infrastructure integration.</p>
Experience includes:
<u>14th Street Drainage Improvements; Jefferson Parish, LA</u>
<p>Mr. Rondan's involvement in this project consists of plan drafting, quantities estimation, cost estimation and documentation for project submittal. Overall, the project goal was to improve the drainage network along 14th Street. Project scope items include the following: construction of new sidewalks and ADA ramps, replacement of pavement and driveways, adjustment of required sewer connections, adjustment of identified water lines and the construction of a new outfall for the canal.</p>
<u>Wright Road Improvements; New Orleans, LA</u>
<p>Mr. Rondan's involvement in this project consists of plan drafting, quantities estimation, cost estimation and documentation for project submittal. Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p>

Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA

This project consists of abandonment of existing dry well and retrofit of existing wet well, construction of new wet well, valve pit, and force main bypass, and installation of new sewer and pipes and sewer force main, as well as removal and replacement of asphalt roadway with concrete roadway, and drainage improvements. Mr. Rondan's responsibilities include plan drafting, budget and quantities estimation, and documentation for project submittal.



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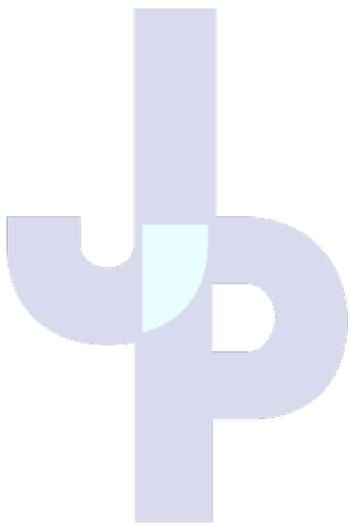
TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Irish Jones; Sr. Electrical Designer
Project Assignment:
Electrical Designer
Name of Firm with which associated:

Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
5 years of college in Electrical Engineering – University of Texas at Arlington
Active registration: Year first registered/discipline:
n/a
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Jones serves as the senior electrical designer of Pivotal Engineering. He has over 40 years of experience in designing electrical installations (power distributions) for industrial and commercial applications of all magnitudes. He obtained his first-Class A electrical license in 1967 in Georgia. Being an electrical contractor for over 40 years, Mr. Jones has developed an extensive experience in not only designing and laying out electrical designs, but also in supervising the installations in the construction phase. His expertise allows the team to provide the best and most economical electrical design for any facility. Due to his experience as an electrician and a contractor, Pivotal will not need to depend on the in- plant electrician while conducting the electrical components field investigations.</p>
Experience includes:
<u>Causeway Street Lighting; Jefferson Parish, LA</u>
Mr. Jones serves as the senior electrical engineer for this project. Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Causeway Street Lighting project. Pivotal will provide preliminary and final design phase services for design and construction plan preparation of the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement is removal and replacement of existing lighting system.
<u>Green Acres Street Lighting; Jefferson Parish, LA</u>
Mr. Jones served as the senior electrical engineer for this project. Pivotal was retained by Jefferson Parish to provide engineering services for the Green Acres Street Lighting project. Pivotal provided preliminary and final design phase services for design and construction plan preparation of the Green Acres Rd. Street Lighting Improvement (W. Metairie Ave. to Airline Dr.). The major scope of the improvement was installation of street lighting system.
<u>Metairie Road Street Lighting; Jefferson Parish, LA</u>
Mr. Jones served as the senior electrical engineer for this project. Pivotal was retained by Jefferson Parish to

TEC Professional Services Questionnaire

provide engineering services for the Metairie Road Street Lighting project. Pivotal provided preliminary and final design phase services for design and construction plan preparation of the Metairie Rd. Street Lighting Improvement (Bonnable Blvd. to Orpheum Ave). The major scope of the improvement is installation of street lighting system.

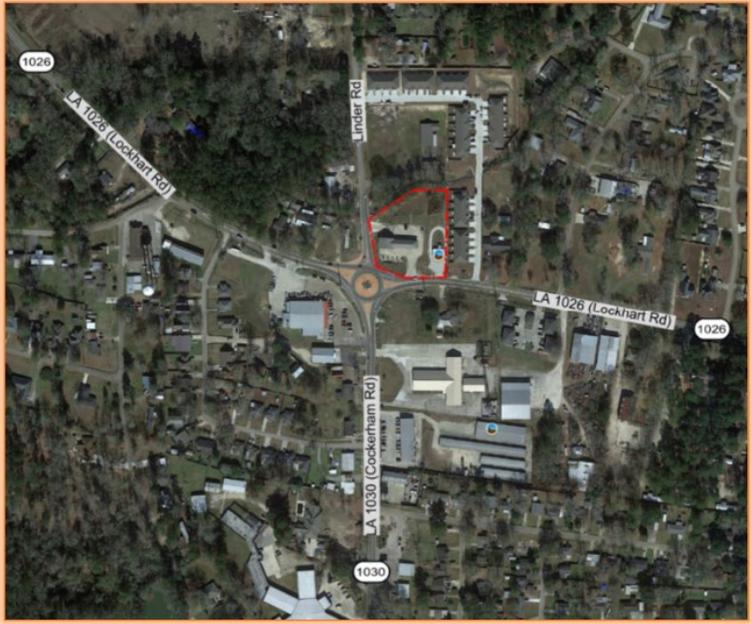


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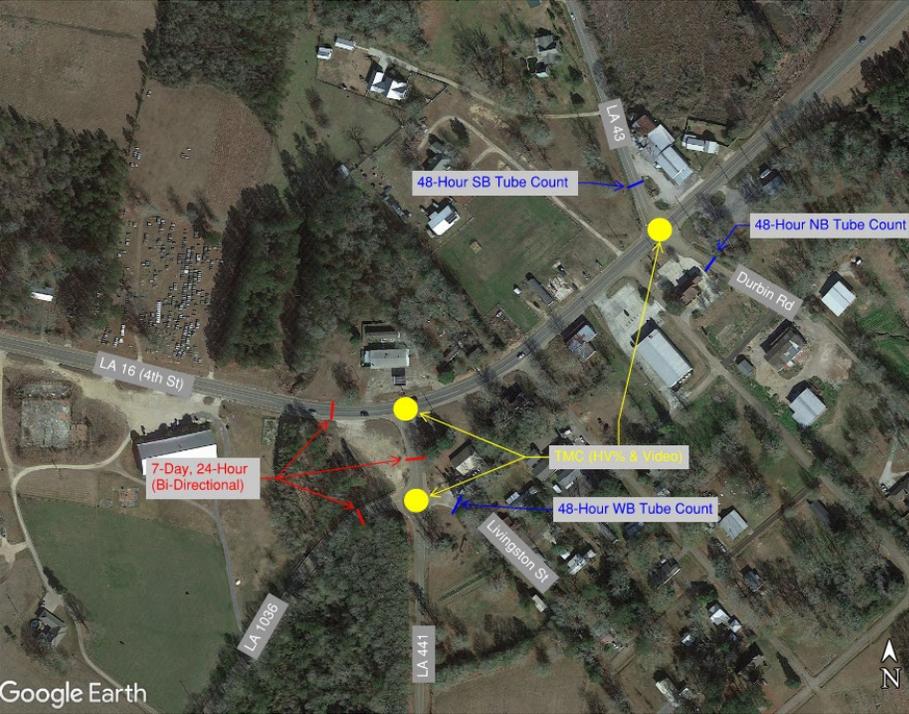
TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

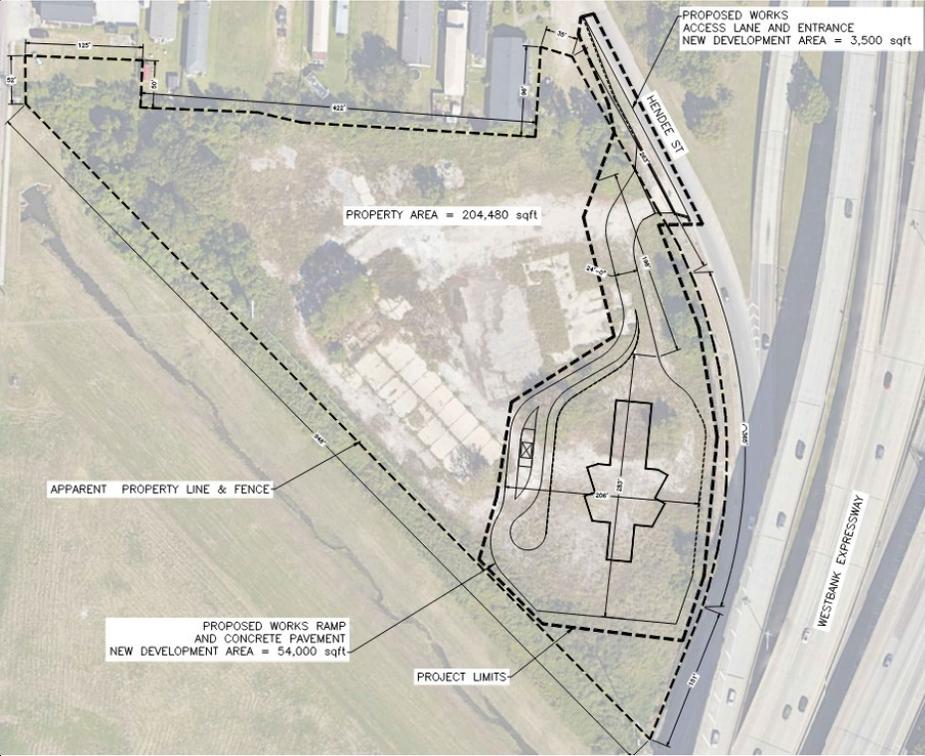
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Kumar's A-1 Stop Traffic Impact Analysis at 9003 Lockhart Rd.</p> <p>9003 Lockhart Rd. (LA 1026), Denham Springs, La. 70726</p> <p style="text-align: center;">Yousef Skaikay Design Build Consulting, LLC 321 Evergreen Dr., Destrehan, La. 70047 Phone: (504) 339-3842</p>	<p>Pivotal was retained to evaluate the impacts of the proposed mixed-use development on the intersection of LA 1026 (Lockhart Rd) at LA 1030 (Cockerham Rd) / Linder Rd and at the proposed driveway entrances.</p> <p>Data Collection Trip Generation and Distribution Intersection Analyses (HCS and Sidra) Turn lane analysis Report and Recommendations</p> <div style="text-align: center;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2023	\$3,500	\$3,500

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PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Food Mart Traffic Impact Analysis at LA 16</p> <p>Intersection of LA16 and LA441 Yousef Skaikay Design Build Consulting, LLC 321 Evergreen Dr., Destrehan, La. 70047 Phone: (504) 339-3842</p>	<p>Pivotal was retained to evaluate the impacts of the proposed mixed-use development on the intersection of LA 16 and LA 441, LA 1036/Livingston St @ LA 441 and LA 16 @ LA 43/Durbin Road</p> <p>Data Collection Trip Generation and Distribution Intersection Analyses (HCS) Turn lane analysis Report and Recommendations</p> <div style="text-align: center;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2024	\$10,000	\$10,000

TEC Professional Services Questionnaire

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p style="text-align: center;">Waste Drop-Off Convenience Centers</p> <p>2301 Hendee Street, New Orleans, LA</p> <p style="text-align: center;">Abby Webber Innovation Manager City of New Orleans Chief Administrative Office City Hall 1300 Perdido Street New Orleans, LA 70112 (o) 504-658-4055 (c) 978-895-6645</p>	<p>Pivotal was retained to evaluate Hendee St. – Right Turn Lane Warrant Analysis to the newly designed Waste Drop of Facility.</p> <p>Data Collection Trip Generation and Distribution Turn lane analysis Report and Recommendations</p> 	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2024	\$6,415	\$6,415

TEC Professional Services Questionnaire

PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Clearview & Airline Intersection Improvements Jefferson Parish, LA</p> <p>Jefferson Parish Engineering Department 1221 Elmwood Pkwy., Suite 802 Jefferson, LA 70123 (504) 736-6000</p>	<p>Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transite water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.</p> 	
<p>Completion Date (Actual or estimated):</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$4.5M	\$1.2M

TEC Professional Services Questionnaire

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Pritchard Rd. Extension Jefferson Parish, LA</p> <p style="text-align: center;">Neil Schneider Jefferson Parish, Capital Projects 1221 Yenni Building, Suite 906 Jefferson, LA 70123 (504) 736-6833</p>	<p>Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:</p> <ol style="list-style-type: none"> 1. Remove and replace existing 20 ft wide concrete roadway and replace with 26ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street. 2. Remove and replace existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software. 3. Relocated existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box is designed for 10 years storm period. 4. Existing 10" and 18" SFM were required to be vertical and horizontal offset. <div style="text-align: center;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$1.3M	\$1.3M

TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bonnabel Bike Path – Metairie Rd. to Levee; Jefferson Parish, LA</p> <p>Jefferson Parish 1221 Elmwood Park Blvd., Suite 802, (504) 736-6000</p>	<p>Pivotal Engineering was retained by Jefferson Parish to provide a drainage analysis and A/E design services for the Bonnabel Bike Path (From Metairie Rd to Levee line at Lake Pontchartrain). Pivotal Engineering staff performed a drainage analysis to calculate 10-year discharge from the contributing areas. Pivotal staff incorporated the approved scope of work into the project which included components such as Architectural, Civil and Electrical Design as well as the drainage analysis. In addition, Pivotal personnel was responsible for reviewing the topographic survey and develop final design and layout plans, grading plans, lighting plans, signage plans and specifications, as required by local, state, and/or federal agencies. The project is valued at 3 million in construction.</p> 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$3.2M	\$3.2M

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Labarre Rd Railroad Crossing Drainage Improvements Jefferson Parish, LA</p> <p style="text-align: center;">Neil Schneider, Director Jefferson Parish, Capital Projects 1221 Elmwood Park Blvd., Ste. 906 Jefferson, LA 70123 (504) 736-6833</p>	<p><i>Design & Construction Administration</i></p> <p>Pivotal was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Rd. Railroad Crossing Drainage Improvement. The major scope of the improvement includes:</p> <ol style="list-style-type: none"> 1. The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp is being built within Parish right of way. 2. The boxes are designed to accommodate all of the existing drain lines in the area in order to preserve current drainage patterns at the crossing. 3. Construction of the box on the east required removal and replacement of ½ of Labarre Road and of the rail road crossing arm. 4. Construction requires deep sheeting, due to proximity of tracks, possibly a coffer dam. 5. Full width of Labarre will be milled and overlaid. <div style="display: flex; justify-content: space-around; margin-top: 10px;">   </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$53,345	\$53,345

TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Wright Road Improvements New Orleans, LA</p> <p style="text-align: center;">City of New Orleans 1300 Perdido St., Room 6W03 New Orleans, LA 70112 Nguyen Phan (504) 658-8000</p>	<p>Pivotal personnel are retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entails the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff have also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p> <ul style="list-style-type: none"> Review the required topographical survey of existing site conditions prior to start of design phase. Design new drainage network for 10 years return period. Design new gravity sewer collection system to replace existing system that had been in service for more than 40 years. Design new water main and located it on the median. Design new street for tie-in to side streets. Coordinate all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. <div style="text-align: center;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$9M	\$9M

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>RR016 BW Cooper, Gert Town Dixon Group C New Orleans, LA Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, 1300 Perdido Street New Orleans, LA 70112 (504) 658-8208 ksaleh@nola.gov</p>	<p>Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs 9 blocks (3245 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.</p> <p>Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.</p> <p>Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.</p> <p>This project was federally funded.</p> <div style="text-align: center;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$4.8M	\$25,149.00

TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">RR017 BW Cooper, Gert Town Dixon Group D New Orleans, LA</p> <p style="text-align: center;">Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, 1300 Perdido Street New Orleans, LA 70112 (504) 658-8208 ksaleh@nola.gov</p>	<p><i>Drainage, Sewer, & Waterline Improvements</i></p> <p>Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project. Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.</p> <p>Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.</p> <p>This project was federally funded.</p> <div style="text-align: center;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$5.3M	\$520,000

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	There are no prior/on-going litigations between Pivotal Engineering, LLC & Jefferson Parish.
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

PIVOTAL ENGINEERING, LLC

Pivotal Engineering, LLC is a full-service engineering design firm based in New Orleans, Louisiana. Pivotal has established a reputation for providing superior service to its clients and delivering quality work on time and within budget. Pivotal's principals and staff have in excess of 200 years of combined experience in civil engineering, mechanical engineering, electrical engineering, environmental engineering and program/project management for both public and private entities across the Gulf South Region. The current staff of Pivotal has extensive experience managing a variety of complex projects, from conception to construction.

Pivotal has been certified as a Disadvantaged Business Enterprise by the Sewerage and Water Board of New Orleans, the City of Baton Rouge, the New Orleans Aviation Board and Harrah's Casino. Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

TEC Professional Services Questionnaire

Required Personnel/Required Firm Qualifications

The person or firm submitting a Statement of Qualifications shall have the following minimum qualifications:

- 1. One principal who is a professional civil engineer who shall be registered as such in Louisiana**
Avinash Mehta, PE
LA PE # 35100 Civil Engineering
- 2. A professional in charge of the project who is a professional civil engineer who shall be registered as such in Louisiana with a minimum of five (5) years' experience in the disciplines involved**
Avinash Mehta, PE
LA PE # 35100 Civil Engineering
- 3. One employee who is a professional civil engineer registered as such in Louisiana in the field or fields of expertise required for the project (A subconsultant may meet the requirement only if the advertised project involves more than one discipline.)**
Yoseph Shifare, PE, PTOE, PMP
LA PE# 42747 Civil Engineering

Evaluation Criteria

1) Professional training and experience in relation to the type of work required for the engineering services

The Pivotal Engineering staff members that will be assigned to this contract have extensive, specialized experience in Engineering Design and Construction Management for Private Entities, and Government and Municipal Agencies in the Gulf South area. Our Principals and Staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal Engineering's principals and staff have all been given accolades on their technical competence and knowledge of administering the contract plans and specifications per agency policy and procedure.

Our management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

Our Team is committed to defining the project and setting expectations as our first step toward making that project a success. We as a team will apply various techniques for project estimation and cost control including:

- Set Expectations Early, Review Often
- Planning the Project Budget
- Keeping Track of Costs
- Establishing a Communication Plan
- Effective Time Management
- Project Change Control
- Use of Earned Value to Monitor Both Cost and Schedule

Our integrated team will provide an optimized concurrent engineering environment that provides an

TEC Professional Services Questionnaire

opportunity to substantially reduce the total cost of a project. Benefits of our integrated team with members of various skilled disciplines enable a simultaneous contribution to an early project definition and increase the likelihood of a reduced lifecycle cost by avoiding costly alterations later in the design process.

2) Size of firm, considering the number of professional and support personnel required to perform the type of engineering tasks

As outlined in this Statement of Qualifications Pivotal not only presents the number of professional and support personnel available to perform this type of engineering tasks, but also demonstrates the breadth and diversity of the capabilities of the staff. Beyond this diversity of capabilities, Pivotal Engineering's Environmental, Planning, Design and Inspection staff has combined experience of greater than 200 years of experience in all phases of project delivery, including electrical, civil, mechanical, environmental, planning, management, design, and construction supervision experience. Professional qualifications include city, state, and federal certifications in safety, management, and a list of other certifications. The Pivotal drafting team is well versed in a variety of software including CIVIL 3D, HEC RAS, H2O MAP and Arc GIS. We ask that you note the resumes included herein for further information.

3) Capacity for timely completion of newly assigned work, considering the factors of type of engineering task, current unfinished workload, and person or firm's available professional and support personnel

Pivotal Engineering has a depth of technical capabilities and expertise to complete the assigned work in a timely manner. We have the needed technical personnel to assure the Parish that all work will be performed in accordance to the contract scope of work and in strict conformance with the latest City guidelines and standards. Pivotal has the manpower, equipment, and expertise to execute any given project within a reasonable time frame. Pivotal staff has a reputation of project delivery both on time and within budget. Pivotal Engineering's current workload will allow for quick assignment of technical resources to the project at hand. The firm has the required management and field personnel readily available to begin the necessary services upon written notification.

Historically, Pivotal has provided a direct line of communication to anyone who is a representative of the client to the assigned Project Principal and Manager. It has been our goal to make communication a priority. We've provided cell lines as the first line of communication, followed by e-mail transmissions and office lines as last resorts. We do not let calls or e-mails go unanswered more than 24-hours and with this have seen huge success as it relates to our client's reliance on us as their consultant of choice.

Approach to Agency Coordination:

The Pivotal Team will identify responsible agencies as early as practical. The Team will notify the Jefferson Parish and address technically any issues of concern regarding the project's scope, potential infrastructure, environmental, social, or economic impacts that could substantially delay or prevent an agency from granting a permit or other approval that is needed for the project. The team will assure that agencies are fully engaged in the scoping of the project and the decisions regarding alternatives to be evaluated in detail in the design.

The Team understands an agency's role in the development of the project and may include the following as they relate to areas of expertise:

TEC Professional Services Questionnaire

1. Provide meaningful and early input to address concerns and impacts.
2. Identify issues that could substantially delay or prevent granting of permits/approvals.
3. Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.
4. Provide timely compliance with review and comment on preliminary documents to reflect the views and concerns of their respective agencies, alternatives considered and anticipated impacts and mitigation.

Approach To Coordinating Project Delivery Tasks:

The Team will use an Integrated Project Delivery (IPD) approach that integrates staff, systems, team company's structures and professional practices into a process that collaboratively harnesses the talents and insights of all participants to optimize project results, increase value to the owner, to the community, reduce waste, and maximize efficiency through all phases of design, bid, and construction.

The Integrated Project Delivery is assembling a team that is committed to collaborative processes and is capable of working together effectively. In order to accomplish this, Principal project manager will:

1. Identify the Team's roles that are most important to the project.
2. Consider interests and seek involvement of select additional parties, such as agency official(s), local utility companies, and other stakeholders.
3. Define in a mutually understandable fashion the values, goals, interests and objectives of the project to the larger program goals.
4. Identify the Team's organizational and business structure best suited to IPD that is consistent with the Team's capacity and constraints. The choice should not be rigidly bound to traditional project delivery methods, but should be flexibly adapted to the project.
5. Develop project agreement(s) to define the roles and accountability of the Team members. The project agreements should be synchronized to assure that company's roles and responsibilities are defined identically in all agreements and are consistent with the agreed Team organizational and business models. Key provisions regarding compensation, obligation and risk allocation will be clearly defined and should encourage open communication and collaboration.

4) Past Performance by person or firm on Parish contracts

Pivotal Engineering has a history of providing lift station design, facility and building design, wastewater, street, water, and drainage design and construction administration services to many municipalities and state agencies in the region including; The City of New Orleans, The City of Shreveport, Sewerage and Water Board, The City of Kenner, St. Charles, St. John and Jefferson Parishes. These services have also been provided to private clients such as Entergy and Waste Management. Pivotal Engineering has in depth understanding of local, state, and federal governmental agencies procedures and regulations. The scope of work on which our staff has worked on includes: water treatment plant improvements, master planning, elevated storage tank designs, sewer treatment plant upgrades, lift stations, build/repair streets, sidewalks, bike paths, drainage systems and utilities. Our engineers have great track records with helping our clients meet compressed deadlines yet delivering the project within budget. Pivotal personnel have heavy construction background capabilities and have several construction inspectors with extensive experience on board.

TEC Professional Services Questionnaire

Our staff has proven excellence in managing projects from cradle to grave while providing value engineering which saved our clients hundreds of thousands of dollars. Our staff was essential in helping the city of New Orleans expediting its recovery post Katrina by handling and completing over 50 critical FEMA funded projects. Our staff has extensive experience in managing multi-million-dollar projects and programs for public infrastructure and CDBG disaster recovery.

The following is a brief list of the team's relevant experience:

- **Kumar's A-1 Stop Traffic Impact Analysis at 9003 Lockhart Rd., Denham Springs, LA**
- **Food Mart Traffic Impact Analysis at LA 16, Destrehan, LA**
- **Clearview & Airline Intersection Improvements; Jefferson Parish, LA**
- **Pritchard Rd. Extension; Jefferson Parish, LA**
- **Bonnabel Bike Path – Metairie Rd. to Levee; Jefferson Parish, LA**
- **Labarre Rd Railroad Crossing Drainage Improvements; Jefferson Parish, LA**
- **Wright Road Improvements; New Orleans, LA**
- **RR016 BW Cooper, Gert Town Dixon Group C; New Orleans, LA**
- **RR017 BW Cooper, Gert Town Dixon Group D; New Orleans, LA**
- **RR018 BW Cooper, Gert Town Dixon Group E; New Orleans, LA**

Quality Assurance / Quality Control Plan

Our management team is comprised of experienced managers and task leaders with proven leadership who can thoughtfully bring together capable team members with exceptional technical skills, and support them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully within budget and schedule.

Pivotal maintains a comprehensive program to ensure that our projects bring the most value to our clients and are of high quality. Each Pivotal project has a comprehensive QA/QC plan to make sure our procedures and documentation conforms to our corporate policies and our client's requirements. QA/QC is much more than providing reviews and checking computations. Quality is a mindset that is shared by every member of the Pivotal team. It starts by clearly understanding expectations and making a commitment to meet them every day and with every deliverable. Each project review also includes some elements of internal value engineering. Our senior staff focuses not only on accuracy and completeness, but on value, optimization, simplicity, operations, maintenance, power cost, and constructability.

Our principals and staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal Engineering's principals and staff have all been given accolades on their technical competence and

TEC Professional Services Questionnaire

knowledge of administering the contract plans and specifications per agency policy and procedure.

Pivotal believes that quality products and services result from having sound business practices, retaining talented staff, and focusing on being responsive to our client's needs. Our clients respect us for our philosophy of "doing the right things for the right reasons."

Quality is integrated into Pivotal's day-to-day business activities through our Quality Management System (QMS). The programs, policies, and business processes that comprise the QMS have four key elements:

- Focus - Management actively promotes quality in our business activities and defines responsibilities for maintaining a quality focus.
- Service - Staff members are trained, available, and committed to providing quality services.
- Delivery - Processes and procedures are in place that promotes quality in the delivery of our products and services.
- Improvement - Continual improvement is achieved through performance measurement and identification of areas for improvement.

Pivotal's senior management demonstrates its commitment to quality through establishing responsibilities for quality at all levels of the company, from company principals to members of management to the project team. Responsibilities are documented in Pivotal's QA/QC Program procedures. These procedures define how Pivotal delivers products and services to our clients.

Experience in creating and working with multi-disciplinary project delivery team:

Pivotal Engineering's management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

Pivotal's approach to the assigned project includes integrated and comprehensive engineering services that include facility inventories, development of design criteria, assessment of major engineering components, preparation of specifications, and plans and associated construction cost.

5) Location of the principal office

Pivotal Engineering, LLC has an office located in Jefferson Parish at 3925 N. I-10 Service Rd. West, Suite 109R, Metairie, LA 70002. This shall prove to be a valuable asset to Jefferson Parish as our staff can be at the Parish's office at moment's notice to attend critical meetings.

TEC Professional Services Questionnaire

- 6) **Adversarial legal proceedings between the Parish and the person or firm performing professional services, in which the Parish prevailed, or any ongoing adversarial legal proceedings between the Parish and the person or firm performing professional services, excluding those instances or cases where the person or firm was added as an indispensable party, or where the person or firm participated in or assisted the public entity in prosecution of its claim**

Pivotal Engineering, LLC is not, nor has it ever been, involved in any litigation with the Jefferson Parish or any other Parish/State/Federal agencies.

- 7) **Prior successful completion of projects of the type and nature of the engineering services, as defined, for which firm has provided verifiable references**

- Nguyen Phan, P.E., Chief Engineer City of New Orleans DPW. (504) 658-8000, nphan@nola.gov
- Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, (504) 658-8208, ksaleh@nola.gov
- Neil Schneider, CCM, P.E. Director of Capital Projects, Jefferson Parish Department of Capital Projects (504) 736-6833, nschneider@jeffparish.net
- Mike Lockwood, Director of Sewerage, Jefferson Parish Department of Sewer (504) 736-6661, mlockwood@jeffparish.net
- Mark Drewes, PE; Director of Public Works, Jefferson parish, Department of Public Works, (504) 736-6783, mdrewes@jeffparish.net
- Angela DeSoto, PE; Director of Engineering; Jefferson Parish, Department of Engineering, (504) 736-6500, adesoto@jeffparish.net
- Myra Alexis-Valentine, Grants Administer, St. John Parish, (985) 652-9569, m.alexisv@stjohn-la.gov
- Jean Todd, Contracting Officer, US Army Corps of Engineers, (901) 828 – 1503, jean.f.todd@usace.army.mil
- Wes Wyche; Director of Public Works; City of Shreveport; (318) 673-6000, Wes.Wyche@shreveportla.gov
- Christopher Racca; Environmental Protection Manager; Waste Management; (225) 637-2385, cracca@wm.com

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  _____ Print Name: Avinash Mehta, PE

Title: President/Principal-In-Charge Date: 01/25/2024

Section Two

TEC Form for BFM

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of
Traffic Engineering Services
 SOQ **23-037** | Resolution No. **143314**

B. Firm Name & Address:



BFM Corporation, LLC
 15 Veterans Memorial Boulevard | Kenner LA 70062

C. Name, title, and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President
 504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com
 Registered Professional Land Surveyor (**Louisiana No. 4329; since 1974**)

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President
 504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com
 Registered Professional Land Surveyor (**Louisiana No. 4329; since 1974**)

E. Please provide the number of employees whose primary function corresponds with each category:

<u>4</u>	Administrative	_____	Estimators	_____	Specification Writers
_____	Architects (Licensed)	_____	Geologists	_____	Structural Engineers
_____	Chemical Engineers	<u>1</u>	Geotechnical Engineers	_____	Graduate Engineers
_____	Civil Engineers	_____	Interior Designers	<u>2</u>	Project Managers
_____	Construction Inspectors	_____	Landscape Architects	_____	Clerical (<i>see Administrative</i>)
_____	Ecologists	<u>1</u>	Land Surveyor (<i>Apprentice</i>)	_____	Grant/Funding Specialist
_____	Electrical Engineers	_____	Mechanical Engineers	_____	Sanitary Engineers
_____	Engineer Intern	_____	Environmental Engineers	<u>1</u>	<i>Researcher/Archivist</i>
<u>2</u>	Professional Land Surveyors	_____		<u>2</u>	<i>CADD Technicians</i>
				<u>5</u>	<i>Survey Crew Chief</i>
				<u>6</u>	<i>Survey Crew Instrumentman</i>
				<u>24</u>	TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES _____ NO **X**

If marked “no”, skip to Section I. If marked “yes”, complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of the Project:

24 (all personnel will be available for assignment to the project)

TEC Professional Services Questionnaire

Other experience and qualifications: **Ralph P. Fontcuberta, Jr., PLS (continued)**

Dept. of Transportation & Development (LADOTD), MS Dept. of Transportation (MDOT), and others), Federal agencies (U.S. Army Corps of Engineers (USACE), Dept. of the Navy, etc.), private/public companies (Entergy, BellSouth, Cox Cable, etc.), and numerous other public/private entities.

Mr. Fontcuberta's surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982, and to 1967 then while working as a surveyor with another firm. He has over half a century of experience with surveying throughout the region and specifically with Jefferson Parish. He has served as the PLS for projects throughout every corner of Jefferson Parish. Relevant project history includes, but is certainly not limited to, the following:

- Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA
- West Napoleon Avenue Extension (Highway Park Subdivision), Jefferson Parish, LA
- Lapalco Boulevard Survey Update, Jefferson Parish, LA
- Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA
- Lapalco Blvd Bridge at Harvey Canal, (PW 2017-046-RBP), Jefferson Parish, LA
- Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA
- Barataria Boulevard Right Turn Lane, Jefferson Parish, LA
- Hollygrove Group E (RR065) Route Topographic Survey, Jefferson Parish, LA
- Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA
- Veterans Memorial Boulevard Route Topographic Survey, Jefferson Parish, LA
- Jefferson Hwy to Charlotte Dr Route Topographic Survey, River Ridge, Jefferson Parish, LA
- Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA
- Soniat Canal Timber Bulkhead Replacement Route Topographic Survey, Jefferson Parish, LA
- Highway 90 Route Topographic Survey, Jefferson Parish, LA
- Transcontinental Drive (North Bound; W. Metairie Ave to Veterans Blvd), Jefferson Parish, LA
- Earhart Expressway - Proposed Lead Street On/Off Ramps, Jefferson Parish, LA
- Latigue Road Extension Supplemental Services, Jefferson Parish, LA
- Destrehan Avenue Bike Path (Patriot Street to Chadwood Drive), Harvey, Jefferson Parish, LA
- Metairie Road Smart Growth: Causeway Blvd & Metairie Rd, Jefferson Parish, LA
- Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA
- Ames Boulevard Rehabilitation, Jefferson Parish, LA
- Ames Boulevard Rehabilitation, Jefferson Parish, LA
- L&A Road Revision Survey, Jefferson Parish, LA
- Green Acres Road, Metairie, Jefferson Parish, LA
- Veterans Memorial Boulevard - Westbound, Jefferson Parish, LA
- Manhattan Boulevard Widening, Harvey, Jefferson Parish, LA
- Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA
- Little Farms Avenue, Jefferson Parish, LA
- David Drive Corridor Project, Metairie, Jefferson Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Engineering Liaison

Name of Firm with which associated:



Years' experience with this Firm:

7 years (became partial owner of BFM in 2017);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

Education: Degree(s)/Year/Specialization:

M.S., 1998, Civil Engineering, University of New Orleans
B.S., 1993, Civil Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

1998, Civil Engineer (Louisiana No. 27667)
2002, Civil Engineer (Mississippi No. 15405)

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

TEC Professional Services Questionnaire

Other experience and qualifications: **Chad M. Poché, P.E. (continued)**

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope. (\$478,744 (fee); 2020)

Waterline Improvements, Metairie Terrace Neighborhood South, JPPW Project No. 2023-040-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. (\$88,400 (fee); 2023)

Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA. BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)

David Drive Corridor, Jefferson Parish, LA. Continuation of a previous Route Topographic Survey project, the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Part of Jefferson Parish PW No. 2013-026-RB. (\$11,285 (fee); 2018)

Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)

West Napoleon Avenue Extension (Highway Park Subdivision), Jefferson Parish, LA. BFM provided Route Topographic Surveying services for the West Napoleon Avenue Extension Project, located at the Highway Park Subdivision in Jefferson Parish. The Phase 1 Limits of Survey were noted to be from the apparent right-of-way to apparent right-of-way along the Airport Access Road, from and extend approximately 225 feet North and South from the projected centerline of West Napoleon Avenue. (\$10,095 (fee); 2021)

Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA. BFM provided surveying services for this bicycle path along Bonnabel Boulevard, extending from Veterans Memorial Boulevard to Lake Pontchartrain, in Metairie, LA. The scope included a Route Topographic Survey (plan only). (\$37,590 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS
Vice President / Registered Professional Land Surveyor

Project Assignment:

Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

6 years (joined BFM in 2018);
13 years total (2011)

BFM Corporation, LLC | 2018 to present
Riverlands Surveying | 2016 to 2018
Bertucci Contracting | 2011 to 2016

Education: Degree(s)/Year/Specialization:

B.S., 2018, Geomatics, Nicholls State University
B.S., 2014, Construction Management, Louisiana State University

Active Registration: Year first registered/discipline:

2021, Professional Land Surveyor (Louisiana No. 5929)

Other experience and qualifications relevant to the proposed Project:

Gary J. Lambert, Jr., is a registered Professional Land Surveyor in Louisiana and provides Project Management and Drafting Oversight for BFM Corporation. He is the first point of contact for clients on technical matters, scheduling, and deliverables for project work, and conducts meetings with engineering, architectural, and government officials to discuss various project needs. His project work has encompassed all manner of surveying services, from basic home lots to 100+ acre tract boundary surveys.

In the field, Mr. Lambert has provided services as a Survey Crew Chief, using both traditional and robotic surveying methods, since the start of his professional career, and has experience with Leica, Hypack, AutoCAD, AutoCAD 3D, Trimble, and RTK surveying technologies. He further trains employees in the use of an aerial drone, laser scanner, and remote-controlled hydrographic survey boat. This survey experience includes topographic, boundary, ALTA/NSPS, FEMA, and various construction surveying. Mr. Lambert has also conducted hydrographic surveys in the Mississippi River and various other bodies of water throughout the Gulf Coast area.

Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

TEC Professional Services Questionnaire

Other experience and qualifications: **Gary J. Lambert, Jr., PLS (continued)**

Waterline Improvements, Metairie Terrace Neighborhood South, JPPW Project No. 2023-040-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. (\$88,400 (fee); 2023)

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope. (\$478,744 (fee); 2020)

Ames Boulevard Rehabilitation, Jefferson Parish, LA. BFM executed a Route Topographic Survey (RTS); the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area included Ames Boulevard from the apparent right-of-way (R/W) at Lapalco Boulevard to the apparent R/W north of Happy Street; approximately 4,800 linear feet. (\$82,500 (fee); 2019)

Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)

Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Parish Legal Department for additional details. (\$49,300 (fee); 2018)

Transcontinental Drive (North Bound; W. Metairie Avenue to Veterans Boulevard), Metairie, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$59,630 (fee); 2020)

Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA. BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>John Philip Thayer Procurement Director (Proposals & Project Management Support)</p>	
Project Assignment:	
Project Management Support	
Name of Firm with which associated:	
 <p>BFM CORPORATION, LLC Professional Land & Hydrographic Surveying</p>	
Years' experience with this Firm:	
<p>16 years (joined BFM in 2008); 17 years total (2007)</p>	<p><i>BFM Corporation, LLC 2008 to present</i> <i>Delle Land Surveying 2007 to 2008</i></p>
Education: Degree(s)/Year/Specialization:	
<p>Certificate, 2015, Land Surveying Services B.S., 2007, Physical Education, Trevecca Nazarene University</p>	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p>South Jamie Boulevard, Avondale, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$19,980 (fee); 2018)</p> <p>Metairie Road & Johnson Street – Route Topographic Survey, Jefferson Parish, LA. BFM's survey work involved the preparation of a Route Topographic Survey (FEMA) for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$11,955 (fee); 2017)</p> <p>Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA. BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **John Philip Thayer (continued)**

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

Latigue Road Extension, Jefferson Parish, LA. BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

Citrus Boulevard Improvements (Dickory Avenue to Elmwood Park Boulevard), Metairie, Jefferson Parish, LA. BFM provided topographic surveying services for Citrus Boulevard improvements project, which included the area from Dickory Avenue to Elmwood Park Boulevard. (\$51,230 (fee); 2016)

Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA. BFM located the 16-inch water line in the exposed areas from Sta. 0+00 on the north bank of Bayou Rigolettes to the south bank of Bayou Rigaud in Grand Isle. In a previous project for the Parish (BFM 7317; Fifi Island/Bayou Rigaud Water Line Location in 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approximate location of the area previously located on Fifi Island; 138,776 feet or 25.79 miles. For the survey, probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by LSU and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. (\$363,080 (fee); 2013)

Westwood Drive Rehabilitation, West Bank Expressway to Lapalco Boulevard, Jefferson Parish, LA. BFM provided topographic surveying services from right-of-way to right-of-way, median, roadway, sidewalks, subsurface utilities, and cross-sections. (\$50,770 (fee); 2014)

Franklin Avenue (Gretna) Right-of-Way Boundary Survey, Gretna, Jefferson Parish, LA. BFM provided right-of-way boundary surveying services for Franklin Avenue between Stumpf Boulevard and the West Bank Expressway and the Franklin Street Utility Corridor. (\$8,300 (fee); 2011)

Mounes Street/Clearview Parkway Surveys, Jefferson Parish, LA. BFM prepared a topographic survey of Mounes Street (Elmwood Park Boulevard to Clearview Parkway) and Clearview Parkway (East Corporate Drive to Bloomfield Street). (\$45,390 (fee); 2011)

Barataria Lighting, West Bank Expressway to Lapalco Boulevard, Jefferson Parish, LA. BFM provided topographic surveying. (\$18,502 (fee); 2009)

LA Highway 23, Lapalco Boulevard to Engineer's Road, Jefferson & Plaquemines Parishes, LA. BFM provided topographic surveying and right-of-way map services for the project. (\$40,549 (fee); 2009)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Field Operations Manager/Survey Crew Chief

Project Assignment:

Field Operations Manager/Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

10 years (joined BFM in 2014); *BFM Corporation, LLC | 2014 to present*
18 years total (2006) *G.E.C., Inc. | 2010 to 2014*
Krebs, LaSalle, LeMieux Consultants, Inc. | 2006 to 2010

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Louisiana Boater Education - Boating Safety Certificate
Norfolk Southern Roadway Worker Protection Contractor Safety Certificate

Other experience and qualifications relevant to the proposed Project:

Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).

Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

TEC Professional Services Questionnaire

Other experience and qualifications: **Christopher Lemley (continued)**

Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA. BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)

Manhattan Boulevard Widening, Harvey, Jefferson Parish, LA. BFM executed boundary and Right-of-Way takings surveying services for Manhattan Boulevard's southbound lanes, from the West Bank Expressway to Gretna Boulevard. (\$21,150 (fee); 2018)

Latigue Road Extension, Jefferson Parish, LA. BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA. A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard. (\$11,390 (fee); 2019)

Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, LA. BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits. (\$12,660 (fee); 2019)

Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the proposed lighting project; the survey extended from apparent R/W (right-of-way) to apparent R/W along Medical Center Boulevard from Wichers Drive to the West Bank Expressway (approximately 2,200 linear feet), with spot elevations taken at 50 foot intervals. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$26,410 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Dawn Hoffman Researcher/Archivist	
Project Assignment:	
Researcher/Archivist	
Name of Firm with which associated:	
 Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
15 years (joined BFM in 2009); 27 years total (1997)	<i>BFM Corporation, LLC 2009 to present</i> <i>Fluor Corporation 2007 to 2009</i> <i>Geographic Computer Technologies, LLC 2000 to 2007</i>
Education: Degree(s)/Year/Specialization:	
A.D., 1999, Computer-Aided Drafting, Southeast College of Technology Certificate, 2003, Introduction to ArcGIS, Louisiana State University	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Dawn Hoffman serves as BFM's primary researcher and has more than 25 years of experience in this field. She is extremely knowledgeable with researching in various parishes and cities.</p> <p>Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA. BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)</p> <p>Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)</p> <p>Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Dawn Hoffman (continued)**

Destrehan Avenue Bike Path (Patriot Street to Chadwood Drive), Harvey, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area included the Destrehan ramp intersection, Chadwood Drive to Destrehan Avenue, and from the Destrehan ramp to Patriot Street. Surveying services further included the intersection of Destrehan Avenue to all side streets within the project area. (\$86,355 (fee); 2019)

Transcontinental Drive (North Bound; W. Metairie Avenue to Veterans Boulevard), Metairie, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the project area; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$59,630 (fee); 2020)

Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

DOTD H.010570, LA 49, Williams Boulevard from West Metairie Avenue to the I-10 East Ramp, Kenner, Jefferson Parish, LA. BFM's surveying services for the project included topographic surveying along Williams Boulevard (LA 49) from 200 feet south of West Metairie Avenue to the I-10 East Ramp. Project involved multiple visits on an as-needed basis over several years. (\$117,732 (fee); 2019)

Ames Boulevard Rehabilitation, Jefferson Parish, LA. BFM executed a Route Topographic Survey (RTS); the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area included Ames Boulevard from the apparent right-of-way (R/W) at Lapalco Boulevard to the apparent R/W north of Happy Street; approximately 4,800 linear feet. (\$82,500 (fee); 2019)

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope. (\$478,744 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson
CADD Technician (AutoCADD Drafting Services)

Project Assignment:

CADD Technician (AutoCADD Drafting Services)

Name of Firm with which associated:

B F M CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

13 years (joined BFM in 2011);
33 years total (1991)

BFM Corporation, LLC | 2011 to present
Krebs LaSalle Lemieux / GEC | 2008 to 2011
Doug Connally and Associates Land Surveying (Dallas, TX) | 1995-2008
Electrician | 1991 to 1995
City of Plano TX (Part-Time Drafting Services) | 1991

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Anthony Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.

Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA. BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)

Ames Boulevard Rehabilitation, Jefferson Parish, LA. BFM executed a Route Topographic Survey (RTS); the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area included Ames Boulevard from the apparent right-of-way (R/W) at Lapalco Boulevard to the apparent R/W north of Happy Street; approximately 4,800 linear feet. (\$82,500 (fee); 2019)

TEC Professional Services Questionnaire

Other experience and qualifications: **Anthony Watson (continued)**

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope. (\$478,744 (fee); 2020)

DOTD H.010570, LA 49, Williams Boulevard from West Metairie Avenue to the I-10 East Ramp, Kenner, Jefferson Parish, LA. BFM's surveying services for the project included topographic surveying along Williams Boulevard (LA 49) from 200 feet south of West Metairie Avenue to the I-10 East Ramp. Project involved multiple visits on an as-needed basis over several years. (\$117,732 (fee); 2019)

Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)

Airline Drive at Clearview Parkway/Zinnia Ave. to Houma Blvd., Jefferson Parish, LA. BFM provided topographic surveying services of the project sites to Louisiana DOTD standards. (\$76,120 (fee); 2016)

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)

Transcontinental Drive (North Bound; W. Metairie Avenue to Veterans Boulevard), Metairie, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the project area; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$59,630 (fee); 2020)

Citrus Boulevard Improvements (Dickory Avenue to Elmwood Park Boulevard), Metairie, Jefferson Parish, LA. BFM provided topographic surveying services for Citrus Boulevard improvements project, which included the area from Dickory Avenue to Elmwood Park Boulevard. (\$51,230 (fee); 2016)

Westwood Drive Rehabilitation, West Bank Expressway to Lapalco Boulevard, Jefferson Parish, LA. BFM provided topographic surveying services from right-of-way to right-of-way, median, roadway, sidewalks, subsurface utilities, and cross-sections. (\$50,770 (fee); 2014)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kevin A. Roberts
CADD Technician (AutoCADD Drafting Services)

Project Assignment:

CADD Technician (AutoCADD Drafting Services)

Name of Firm with which associated:



Years' experience with this Firm:

6 years (joined BFM in 2018);	<i>BFM Corporation, LLC 2018 to present</i>
39 years total (1985)	<i>J.V. Burkes and Associates 2017 to 2018</i>
	<i>Evans-Graves Engineers 2003 to 2017</i>
	<i>J. Ray McDermott 2002 to 2003</i>
	<i>MECO (Drafting Dept) 2002 to 2003</i>
	<i>Advanced Commercial Contracting (Drafting Dept) 1999 to 2002</i>
	<i>SOTEC (Drafting Dept) 1999</i>
	<i>UNO Purchasing & Physical Plant Depts. 1985 to 1997</i>

Education: Degree(s)/Year/Specialization:

A.D., 1999, Drafting & Design, Louisiana Technical College
Coursework, 1994-1997, Nunez Community College
Coursework, 1984-1988, Delgado Community College
Coursework, 1982-1983, University of New Orleans

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Kevin Roberts has direct drafting experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He joined BFM in 2018 and provides drafting services to the firm.

Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA. BFM provided surveying services for this bicycle path along Bonnabel Boulevard, extending from Veterans Memorial Boulevard to Lake Pontchartrain, in Metairie, LA. The scope included a Route Topographic Survey (plan only). (\$37,590 (fee); 2020)

Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)

TEC Professional Services Questionnaire

Other experience and qualifications: **Kevin A. Roberts (continued)**

West Napoleon Avenue Extension (Highway Park Subdivision), Jefferson Parish, LA. BFM provided Route Topographic Surveying services for the West Napoleon Avenue Extension Project, located at the Highway Park Subdivision in Jefferson Parish. The Phase 1 Limits of Survey were noted to be from the apparent right-of-way to apparent right-of-way along the Airport Access Road, from and extend approximately 225 feet North and South from the projected centerline of West Napoleon Avenue. (\$10,095 (fee); 2021)

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)

Barataria Boulevard Right Turn Lane, Jefferson Parish, LA. BFM provided right-of-way acquisition surveying services for a right turn lane (northbound) from Barataria Boulevard to Wichers Drive. (\$5,240 (fee); 2020)

Hollygrove Group E (RR065) Route Topographic Survey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of Hollygrove Group E (RR065); this involved Forshey Street, Hollygrove Street, Hamilton Street, Edinburgh Street, and Mistletoe Street (a total of 4,950 linear feet). The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$34,650 (fee); 2020)

Veterans Memorial Boulevard Route Topographic Survey, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the project, located along Veterans Memorial Boulevard (Williams Boulevard to Illinois Avenue). (\$28,920 (fee); 2020)

Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the proposed lighting project; the survey extended from apparent R/W (right-of-way) to apparent R/W along Medical Center Boulevard from Wichers Drive to the West Bank Expressway (approximately 2,200 linear feet), with spot elevations taken at 50 foot intervals. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$26,410 (fee); 2020)

Jefferson Highway to Charlotte Drive Route Topographic Survey, River Ridge, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the project area (Jefferson Highway to Charlotte Drive), which further involved the Midway Drive Drainage Improvements (Phase 2) project in River Ridge. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$19,135 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Curtis "Jay" Barrios Survey Crew Chief	
Project Assignment:	
Survey Crew Chief	
Name of Firm with which associated:	
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
34 years (joined BFM in 1990); 39 years total (1985)	<i>BFM Corporation, LLC 1990 to present</i> <i>Benson Mercedes Benz 1989 to 1990</i> <i>SECO Electric 1987</i> <i>Frishhertz Electric 1986 to 1987</i> <i>Plain Construction 1985 to 1986</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Basic OSHA Training Class Completion</i> <i>Transportation Work Identification Card (TWIC)</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Jay Barrios' surveying experience includes boundary, hydrographic, and topographic. He has been the Survey Crew Chief for thousands of projects and is one of the more experienced surveyors in the area. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T).</p> <p>Highway 90 Route Topographic Survey, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the project along Highway 90, which extended from Lapalco Boulevard to the railroad overpass). This involved establishing temporary benchmarks (intervals not to exceed 600 ft.), location of existing improvements and above-ground utilities, and spot elevations at 50 ft. intervals. (\$29,465 (fee); 2020)</p> <p>Barataria Boulevard Right Turn Lane, Jefferson Parish, LA. BFM provided right-of-way acquisition surveying services for a right turn lane (northbound) from Barataria Boulevard to Wichers Drive. (\$5,240 (fee); 2020)</p> <p>Safe Routes to Schools Program: Jefferson Terrace Boulevard Sidewalks, New Iberia, Iberia Parish, LA. BFM provided a topographic route survey for the project, which also included streetscape (landscaping) elements. (\$2,080 (fee); 2010)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Curtis "Jay" Barrios (continued)**

Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA. A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard. (\$11,390 (fee); 2019)

Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard), Jefferson Parish, LA. BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Barataria Boulevard; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase. (\$46,854 (fee); 2018)

Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (fee); 2019)

Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

LA 23 Lighting Improvements (Lapalco Boulevard to Whitney Avenue), Jefferson Parish, LA. Topographic survey of median and roadway baselines (gutters/curbs), overhead electrical lines, location of above ground/underground features in median (electrical, drainage, sewer, gas, signage, obstructions, etc.). (\$54,314 (fee); 2014)

Safe Routes to Schools Program: Jefferson Terrace Boulevard Sidewalks, New Iberia, Iberia Parish, LA. BFM provided a topographic route survey for the project, which also included streetscape (landscaping) elements. (\$2,080 (fee); 2010)

Lapalco Blvd. Improvements (Westwood Drive to Barataria Blvd.); 96-019A-RBI, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$15,000 (fee); 1998)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Thomas O. Wright Survey Crew Chief	
Project Assignment:	
Survey Crew Chief	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
16 years (joined BFM in 2008); 47 years total (1977)	<i>BFM Corporation, LLC 2013 to present</i> <i>Boh Bros Construction, LLC 2012 to 2013</i> <i>Landmark Surveying, Inc. 2009 to 2011</i> <i>Gilbert Southern Corp. 2000 to 2008</i> <i>PBS&J Corp. 1997 to 1999</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>American Traffic Safety Service Assn. – Traffic Control Technician</i> <i>American Traffic Safety Service Assn. – Traffic Control Supervisor</i> <i>Basic OSHA Training Class Completion</i> <i>Transportation Work Identification Card (TWIC)</i>	
Other experience and qualifications relevant to the proposed Project:	
Thomas O. Wright has over 40 years of experience in surveying services, including a multitude of project types (water, wastewater, stormwater, drainage, roadway, etc.) throughout the region.	
<p>West Napoleon Avenue Extension (Highway Park Subdivision), Jefferson Parish, LA. BFM provided Route Topographic Surveying services for the West Napoleon Avenue Extension Project, located at the Highway Park Subdivision in Jefferson Parish. The Phase 1 Limits of Survey were noted to be from the apparent right-of-way to apparent right-of-way along the Airport Access Road, from and extend approximately 225 feet North and South from the projected centerline of West Napoleon Avenue. (\$10,095 (fee); 2021)</p>	
<p>South Jamie Boulevard, Avondale, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$19,980 (fee); 2018)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Thomas O. Wright (continued)**

West Esplanade Avenue (Village Drive to Hullen Street), Metairie, Jefferson Parish, LA. BFM executed a topographic survey of the West Esplanade Avenue project, which extended from Village Drive (west) to Hullen Street in Metairie. (\$17,192 (fee); 2016)

Veterans Memorial Boulevard/Power Boulevard, Jefferson Parish, LA. For the Jefferson Parish Attorney's Office, BFM provided boundary and re-subdivision surveying services for the intersection of Veterans Memorial Boulevard and Power Boulevard by the Soniat Canal. (\$9,980 (fee); 2016)

Richard Street Surveys, Gretna, Jefferson Parish, LA. BFM provided surveying services to recover temporary benchmarks (TBMs) at Richard Street, and re-establish vertical TBM control for the Fourth Street Extension. (\$4,520 (fee); 2016)

Veterans Memorial Boulevard, Clearview Parkway to Severn Avenue, Jefferson Parish, LA. BFM provided topographic surveying services for the project, which encompassed approximately 8300 linear feet of Veterans Memorial Boulevard. This included median crossing (e.g., U-turns) and runs between Clearview Boulevard and Severn Avenue. (\$31,384 (fee); 2016)

Latigue Road Extension, Jefferson Parish, LA. BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

Westwood Drive Rehabilitation, West Bank Expressway to Lapaclo Boulevard, Jefferson Parish, LA. BFM provided topographic surveying services from right-of-way to right-of-way, median, roadway, sidewalks, subsurface utilities, and cross-sections. (\$50,770 (fee); 2014)

MacArthur Drive Interchange Improvements – Phase 1B, US 90 B/ I-910, Jefferson Parish, LA. BFM provided baseline control and additional topographic survey for revised alignment of proposed interchange. (\$4,500 (fee); 2012)

Mounes Street/Clearview Parkway Surveys, Jefferson Parish, LA. BFM prepared a topographic survey of Mounes Street (Elmwood Park Boulevard to Clearview Parkway) and Clearview Parkway (East Corporate Drive to Bloomfield Street). (\$45,390 (fee); 2011)

Franklin Avenue (Gretna) Right-of-Way Boundary Survey, Gretna, Jefferson Parish, LA. BFM provided right-of-way boundary surveying services for Franklin Avenue between Stumpf Boulevard and the West Bank Expressway and the Franklin Street Utility Corridor. (\$8,300 (fee); 2011)

Airline Park Boulevard, Jefferson Parish, LA. BFM provided topographic surveying services for the Airline Park Boulevard roadway project, which extended from West Metairie Avenue north to beyond Camphor Street. (\$18,176 (fee); 2010)

West Napoleon Avenue U-Turn Survey, Westgate Subdivision Drainage Improvements, Jefferson Parish, LA. BFM provided topographic surveying of a u-turn on West Napoleon Avenue, midway between Massachusetts Avenue and Mississippi Avenue. The project, which was part of the Westgate Subdivision Drainage Improvements project, also included 16 cross sections. Box culverts were also part of the project layout. (\$4,941 (fee); 2011)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric Gladney II
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

10 years (joined BFM in 2014);
23 years total (2001)

BFM Corporation, LLC | 2014 to present
Seatech Industries | 2010 to 2012
Richmond W. Krebs & Associates, LLC | 2008 to 2010
Krebbs, LaSalle, LeMieux Consultants Inc. | 2003 to 2008

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Basic OSHA Training Class Completion
Norfolk Southern Roadway Worker Protection Contractor Safety Certificate
Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:

Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard), Jefferson Parish, LA. BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Barataria Boulevard; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase. (\$46,854 (fee); 2018)

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey will include establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. Spot elevations will also be taken. (\$84,280 (fee); underway)

TEC Professional Services Questionnaire

Other experience and qualifications: **Eric Gladney II (continued)**

Latigue Road Extension, Jefferson Parish, LA. BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

Veterans Memorial Boulevard, Clearview Parkway to Severn Avenue, Jefferson Parish, LA. BFM provided topographic surveying services for the project, which encompassed approximately 8300 linear feet of Veterans Memorial Boulevard. This included median crossing (e.g., U-turns) and runs between Clearview Boulevard and Severn Avenue. (\$31,384 (fee); 2016)

David Drive Corridor Improvements, W Napoleon to Veterans, Jefferson Parish, LA. BFM provided surveying services for the David Drive Corridor Improvements project. (\$52,380 (fee); 2016)

Richard Street Surveys, Gretna, Jefferson Parish, LA. BFM provided surveying services to recover temporary benchmarks (TBMs) at Richard Street, and re-establish vertical TBM control for the Fourth Street Extension. (\$4,520 (fee); 2016)

Veterans Memorial Boulevard/Power Boulevard, Jefferson Parish, LA. For the Jefferson Parish Attorney's Office, BFM provided boundary and re-subdivision surveying services for the intersection of Veterans Memorial Boulevard and Power Boulevard by the Soniat Canal. (\$9,980 (fee); 2016)

Waterline Improvements, Metairie Terrace Neighborhood South, JPPW Project No. 2023-040-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. (\$88,400 (fee); 2023)

North Causeway Boulevard / Veterans Overpass Ramp Extension, Jefferson Parish, LA. BFM provided surveying services for the project, which involved an extension of the southbound North Causeway Boulevard/Veterans Overpass Ramp. (\$35,940 (fee); 2015)

Power Boulevard & Vintage Drive Intersection, Jefferson Parish, LA. BFM performed a topographic survey of the project, which included the Power Boulevard/Vintage Drive Intersection. (\$1,500 (fee); 2016)

Citrus Boulevard Improvements (Dickory Avenue to Elmwood Park Boulevard), Metairie, Jefferson Parish, LA. BFM provided topographic surveying services for Citrus Boulevard improvements project, which included the area from Dickory Avenue to Elmwood Park Boulevard. (\$51,230 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Jeff Patin Survey Crew Chief</p>	
Project Assignment:	
Survey Crew Chief	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
<p>5 years (joined BFM in 2019); 25 years total (1999)</p>	<p><i>BFM Corporation, LLC 2019 to present</i> <i>L & L Land Surveying, LLC 2015 to 2019</i> <i>James Construction Group, LLC 2014 to 2015</i> <i>Contract Survey Crew Chief (Self-Employed) 2011 to 2014</i> <i>T. Baker Smith, LLC 2008 to 2011</i> <i>Krebbs, LaSalle, LeMieux Consultants Inc. 2004 to 2008</i> <i>BFM Corporation, LLC 2003 to 2004</i> <i>Mark Broussard, PLS & Comeaux Engineering 1998 to 2003</i> <i>C. Mistic Surveyors, Inc. 1996 to 1997</i></p>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<p>American Traffic Safety Service Assn. – Traffic Flagger Basic OSHA Training Class Completion Transportation Work Identification Card (TWIC)</p>	
Other experience and qualifications relevant to the proposed Project:	
<p>Jeff Patin has worked as a Survey Crew Chief and Instrumentman for nearly a quarter of a century for a number of southeastern Louisiana surveying firms on projects throughout the region. His work history includes supervision of field crew personnel, operation of survey equipment (Topcon GPT, Leica GPS, Total Station, etc.), calculations, information collection, and any & all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public & private clients, and has performed field work under the direction of the USACE.</p> <p>Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Jeff Patin (continued)**

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope. (\$478,744 (fee); 2020)

Transcontinental Drive (North Bound; W. Metairie Avenue to Veterans Boulevard), Metairie, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the project area; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$59,630 (fee); 2020)

Mid City Group D, New Orleans, LA. BFM executed a Route Topographic Survey (RTS) for the City of New Orleans Department of Public Works. The project area included Mid City Group D (RR127), which included four routes (Palmyra Street, South Telemachus Street, South Carrollton Avenue, and Iberville Street) involving 5,400 total linear feet. (\$34,020 (fee); 2020)

Lower 9th Ward Group D, City of New Orleans, LA. BFM executed a Route Topographic Survey (RTS) for the City of New Orleans Department of Public Works. The project area included Lower Ninth Ward Group D (RR106), which included 11 routes and right of way to 100 feet beyond intersections. Locations included Alabo street, Benton Street, and Winthrop Street, as well as two sections of Gordon Street, Law Street, N D'orgenois Street, and Roffignac Street. (\$45,675 (fee); 2020)

East Carrollton Group C (RR034), City of New Orleans, LA. BFM executed a Route Topographic Survey of East Carrollton Group C (RR034); the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project specifically included one route, establishing a base line and temporary benchmarks, and taking spot elevations at 25 foot intervals. BFM further located improvements and utilities, and located property corners to establish R/Ws (right of ways). (\$60,200 (fee); 2020)

Cousins Boulevard Extension Survey Update, Harvey, Jefferson Parish, LA. This project involved an update of the Cousins Boulevard Extension Project along with Right-of-Way Takings. The survey update itself involved a survey review of the previous BFM project (BFM No. 9896) to show any corrected boundary lines and property ownership updates. The Right-of-Way Takings phase involved preparation of the right-of-way takings for each parcel involved. Once presented to & approved by the Parish, BFM set the property corners for the created parcels. Deliverables included individual survey plats for each property acquisition, metes-and-bounds worksheet, and additional information on each parcel. (\$11,390 (fee); ongoing)

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Cousins Boulevard Extension, Harvey, Jefferson Parish, Louisiana</p> <p>Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-7515 fliang@deii.net</p>	<p>BFM provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2018	N/A	\$49,300 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana</p> <p>Hardesty & Hanover 3850 N Causeway Blvd Ste 1850 Metairie LA 70002</p> <p>Dr. Babak Naghavi, P.E., 504-962-9212 bnaghavi@hardestyhanover.com</p>	<p>BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2020	N/A	\$478,744 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lapalco Boulevard Turn Lane (Lapalco Blvd at Barataria Blvd), Jefferson Parish, Louisiana</p> <p>Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119</p> <p>Mark K. Roberts, P.E., 504-486-5901 mroberts@bkiusa.com</p>	<p>BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Barataria Boulevard; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2018	N/A	\$46,854 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Barataria Boulevard Turn Lane, Marrero, Jefferson Parish, Louisiana</p> <p>Newell Engineering, LLC 700 Papworth Ave Ste 202 Metairie LA 70005</p> <p>Frank C. Newell, P.E., PLS, 504-206-3150 NE@newellengineering.com</p>	<p>The project area involved a turning lane off northbound Barataria Boulevard in Marrero. For the project, BFM provided a complete Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The survey area encompassed Barataria Boulevard from Wichers Drive to 13th Street; cross sections were executed on a 25-foot grid.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2018	N/A	\$7,820 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Waterline Improvements, Metairie Terrace Neighborhood South (Shrewsbury Rd, Amoult Rd, Katlan St, Lausat St, Hullen St, Claiborne Ave & Jimco Rd), JPPW 2023-040-WRB, Jefferson Parish, Louisiana</p> <p>GIS Engineering 935 Gravier Street Suite 600 New Orleans LA 70112</p> <p>Kyle Galloway, P.E., 504-264-3504 kgalloway@gisy.com</p>	<p>BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2023	N/A	\$88,400 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Ave), Jefferson Parish, Louisiana</p> <p>H. Davis Cole & Associates, Inc. 1340 Poydras Street Suite 1850 New Orleans LA 70112</p> <p>Mike D'Angelo, 504-836-2020 mike@hdaviscole.com</p>	<p>BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey will include establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. Spot elevations will also be taken.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2023	N/A	\$84,280 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, Louisiana</p> <p>GEC, Inc. 8282 Greenwood Boulevard Baton Rouge LA 70806</p> <p>Jerome Lohman, 225-612-3000</p>	<p>A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2019	N/A	\$11,390 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Metairie Road Smart Growth: Causeway Blvd and Metairie Rd, Metairie, Jefferson Parish, Louisiana</p> <p>H. Davis Cole & Associates, Inc. 1340 Poydras Street Suite 1850 New Orleans LA 70112</p> <p>David Martin, P.E., 504-836-2020</p>	<p>BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2019	N/A	\$12,660 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Manhattan Blvd Southbound Lanes Widening, Harvey, Jefferson Parish, Louisiana</p> <p>Professional Engineering Consultants Corporation (PEC) 3702 Bienville Avenue New Orleans LA 70119</p> <p>John Shires, 504-345-4842 jshires@pecla.com</p>	<p>BFM Corporation executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2020	N/A	\$34,650 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Medical Center Boulevard Lighting, Marrero, Jefferson Parish, Louisiana</p> <p>Buchart-Horn, Inc. 18163 E Petroleum Dr Ste A Baton Rouge LA 70809</p> <p>Alan Krouse, 225-755-2120 akrouse@bucharthorn.com</p>	<p>BFM executed a Route Topographic Survey for the proposed lighting project; the survey extended from apparent R/W (right-of-way) to apparent R/W along Medical Center Boulevard from Wichers Drive to the West Bank Expressway (approximately 2,200 linear feet), with spot elevations taken at 50 foot intervals. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2020	N/A	\$26,410 (fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<i>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i>	
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm’s qualifications for the proposed project.



CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic, and hydrographic, as well as drone-based surveying and high-definition laser scanning.

BFM Corporation is a majority Woman-Owned Business Enterprise (WBE) as well as a Hudson Initiative certified Small & Emerging Business and Small Entrepreneurship in Louisiana.

Our capabilities include the following and more:

- Topographic Surveying
- Drone Surveying
- Photogrammic & LiDAR and 3D Laser Scanning
- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys
- Maps, Cross-Sections, & Data Sets; Benchmarks

TEC Professional Services Questionnaire

N. continued.

- Construction-Related Surveying and Builder's Package Surveys
- American Land Title Association (ALTA) Surveys

BFM's project work routinely involves **extensive records and related research** as an element of successful completion, as well as coordination with the client, agency or department. BFM has the personnel to make sure this is done correctly and expeditiously.

Our **Survey Field Crews** are equipped with Leica Viva and Leica Captivate Data Collectors, as well as Leica GPS Smart Antennas. Each GPS unit is linked to the Leica SmartNet Network, giving each crew the ability for Real Time Kinematic Positioning (RTK), derived from the Global Navigation Satellite System (GNSS). Furthermore, each crew is outfitted with Leica TS series robotic total stations, simplifying and expediting projects. BFM can also use in-house drones and 3D scanners to further analyze sites and projects. BFM's crews are trained to use this equipment to its full potential to maximize accuracy and efficiency in the field.

BFM offers **Drone Surveying Services**, featuring a DJI Matrice 600 Pro drone outfitted with a Sony A7R3 42-megapixel camera, Pixhawk Triggering System, VMAP PPK system, and an A3 Pro Flight Controller. It can capture 50 acres of land allowing BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

BFM's **3D modeling capabilities** allow us to process & model for any design purpose. High-definition scanner data is processed using software from Leica and Autodesk. BFM is working on non-traditional survey deliverables, including virtual tours, live walkthroughs, detailed pipe rack modeling, and modeling for use with Autodesk Revit Architecture.

When needed, BFM provides **bathymetric surveying** to handle **any hydrographic surveying tasks**. For large rivers and bodies of water, we are equipped with Teledyne Odom Hydro Solutions' Hydro Trac Single Beam Echo Sounder. For smaller bodies of water, BFM uses an SL20 Remote Controlled Boat equipped with CEE Scope Dual Channel Echo Sounder. We use Hypack Software to process collected data. Further, BFM can execute multi-beam scans, side scans and magnetometer surveys upon request.

CRITERIA 2 | SIZE OF FIRM

As noted, BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. BFM has no issue with meeting the project deadlines set forth by our clients, both municipal and private. It is our continual goal to keep this reputation solid. Further, we establish base costs and fees for our services, and work with our clients to meet all project budgets.

As noted in **item E** of this form, BFM currently has a **full-time staff of two dozen people**, including **two Registered Professional Land Surveyors, Survey Field Crew Personnel, and AutoCAD drafting personnel**, as well as **complete administrative and support staff**.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by a contract or project engineer. It is our goal to keep this reputation solid. We establish base costs and fees for our services, and work with our clients to meet all project budgets. Our workload and scheduling, and proximity to the project site, will allow for quick assignment of personnel to any directed project.

BFM Corporation's **Ralph P. Fontcuberta, Jr., PLS**, Executive Vice President, is a **Louisiana-Registered Professional Land Surveyor (since 1974)** and meets or exceeds any minimum requirements for any surveying project. He has been **providing surveying services in Louisiana for over 50 years** and brings an almost incalculable wealth of experience in the region to any project, especially in Southeast Louisiana.

Chad M. Poché, P.E., Executive Vice President, brings **more than 25 years of experience** to assist in completing projects on time and within budget. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana and has been the geotechnical engineer of record for thousands of projects.

Gary J. Lambert, Jr., PLS, Vice President is a **registered Professional Land Surveyor** and provides Project Management & Drafting Oversight and is the first point of contact for clients on technical matters. He meets with engineering, architectural, and government officials to discuss various project needs.

Our personnel included **multiple survey crews** and a **fully-staffed drafting department** to handle any project needs; they are thoroughly trained and extensively familiar with the region and needs of various types of surveying projects.

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

BFM Corporation has provided **surveying services in Jefferson Parish since 1982**, both **directly to Parish agencies and as a consultant to firms serving the Parish**. The firm has executed many hundreds of projects in the Parish, including both direct Parish projects and State agency projects (CPRA, Louisiana DOTD, etc.), not to mention the scores of surveying projects for private individuals and industry.

As noted, Mr. Fontcuberta has **over half a century of professional land surveying experience**, including over 40 years with BFM. **He has provided professional surveying services for thousands of projects for and throughout Jefferson Parish.**

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

BFM has called Jefferson Parish home office location since the firm's inception in 1982; our principal office is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

BFM Corporation is **not involved in litigation with Jefferson Parish** nor with any of our clients, as is noted in Item M of this form.

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

For over 40 years, BFM Corporation has completed thousands of projects throughout Jefferson Parish and Southeast Louisiana, both to municipal and various private clients, similar to the project at hand, not to mention other drainage projects in a wide range of sizes, from small lot to Parish-wide endeavors. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).** Further, BFM has worked with virtually every municipality in the region. We enjoy a high repeat-business rate with all our clients. We offer the following specific references for contact:

Mark R. Drewes, P.E., Director, Jefferson Parish Public Works Department
(504-736-6783 | JPPW@jeffparish.net)

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish Public Works Dept.
(504-736-6783 | JPPW@jeffparish.net)

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.us)

Angela DeSoto, P.E., Director of Engineering, Jefferson Parish
(504-736-6511 | ADeSoto@jeffparish.net)

Sid Trouard, P.E., Program Manager, Jefferson Parish Sewerage Capital Improvement Program
(504-736-6386 | STrouard@jeffparish.net)

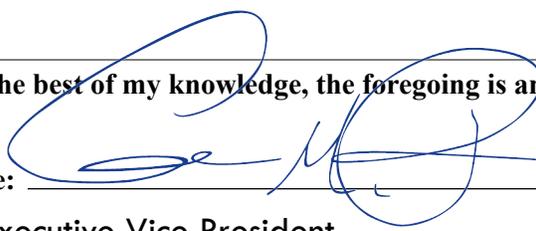
Khalid L. Saleh, PhD, Capital Program Administrator, New Orleans Dept. of Public Works
(504-658-8000 | khsaleh@nola.gov)

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish
(504-736-6661 | JPSewerage@jeffparish.net)

Greg Cromer, Mayor, City of Slidell
(985-646-4333 | gcromer@cityofslidell.org)

Our professional work history is exemplary. We strive to provide on-time and technically thorough project deliverables at the budget set by our clients.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  Print Name: Chad M. Poché, P.E.

Title: Executive Vice President Date: January 22, 2024

Section Three

TEC Form for Gulf South

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of
Traffic Engineering Services
 SOQ 23-037 | Resolution No. 143314

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.
 15 Veterans Memorial Boulevard | Kenner LA 70062

C. Name, title, and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Chad M. Poché, P.E., Executive Vice President
 504-468-8800 | 504-460-5239 cell | cpoche@bfmcorporation.com
 Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline:

Chad M. Poché, P.E., Executive Vice President
 504-468-8800 | 504-460-5239 cell | cpoche@bfmcorporation.com
 Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

E. Please provide the number of employees whose primary function corresponds with each category:

<u>6</u>	Administrative	_____	Estimators	_____	Specification Writers
_____	Architects (Licensed)	_____	Geologists	_____	Structural Engineers
_____	Chemical Engineers	<u>1</u>	Geotechnical Engineers	_____	Graduate Engineers
_____	Civil Engineers	_____	Interior Designers	_____	Project Managers
<u>11</u>	Construction Inspectors	_____	Landscape Architects	_____	Clerical (<i>see Administrative</i>)
_____	Ecologists	_____	Land Surveyor (<i>see PLS</i>)	_____	Grant/Funding Specialist
_____	Electrical Engineers	_____	Mechanical Engineers	_____	Sanitary Engineers
<u>1</u>	Engineer Intern (<i>Geotech.</i>)	_____	Environmental Engineers	<u>1</u>	<i>Constr. Services Manager</i>
<u>1</u>	Professional Land Surveyors	_____		<u>4</u>	<i>CMT Supervisor/PM</i>
				<u>4</u>	<i>Lab Manager/Lab Technicians</i>
				<u>2</u>	<i>Soil Boring Technicians</i>
				<u>31</u>	TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES _____ NO X

If marked “no”, skip to Section I. If marked “yes”, complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of the Project:

31 (all personnel will be available for assignment to the project)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer

Name of Firm with which associated:



Years' experience with this Firm:

13 years (founded Gulf South in 2011);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

Education: Degree(s)/Year/Specialization:

M.S., 1998, Civil Engineering, University of New Orleans
B.S., 1993, Civil Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

1998, Civil Engineer (Louisiana No. 27667)
2002, Civil Engineer (Mississippi No. 15405)

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E., is Executive Vice President, co-founder, and a Principal in Gulf South. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations and serving as an Expert Witness.

Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

TEC Professional Services Questionnaire

Other experience and qualifications: **Chad M. Poché, P.E. (continued)**

Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA. Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2021)

Latigue Road Extension (Phase I; Live Oak Blvd. to Foundry Rd.), Jefferson Parish, LA. Geotechnical investigation for a new paved extension road (approx. 1,000 lf) between Live Oak Boulevard and Foundry Road in Jefferson Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 10 ft.), lab testing, and engineering analyses including flexible pavement design recommendations and general construction procedures & recommendations. (\$7,000 (fee); 2018)

Airline Park Blvd. Rehabilitation and Drainage Upgrade (W. Napoleon to Camphor), Jefferson Parish, LA. Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor. Scope of work included drilling four soil borings (depths of 15 & 50 ft), laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations. (\$8,500 (fee); 2015)

David Dr. Drainage Improvements (W. Esplanade Avenue to Bruin Drive), Jefferson Parish, LA. Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations. (\$7,500 (fee); 2015)

Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)

Green Acres Road – New Street Lighting, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new street lighting along Green Acres Road (Airline Highway to West Metairie Boulevard) in Metairie, LA. Gulf South's scope includes drilling two undisturbed soil borings (depths of 24 ft), lab testing, and engineering analyses including subsoil properties, and general construction procedures and recommendations. (\$4,500 (fee); 2019)

Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA. Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations. (\$7,000 (fee); 2018)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryson S. Beard, E.I., ACI

Graduate Engineer; Associate Geotechnical Engineer/Field Engineer

Project Assignment:

Associate Geotechnical Engineer/Field Engineer

Name of Firm with which associated:



Years' experience with this Firm:

2 years (joined Gulf South in 2022);
3 years total (2021)

Gulf South Engineering and Testing, Inc. | 2022 to present
TetraTech, Inc. | 2021 to 2022

Education: Degree(s)/Year/Specialization:

B.S., 2021, Geological Engineering, University of Mississippi

Active Registration: Year first registered/discipline:

2022, Engineering Intern (Georgia No. EIT029180) (*Louisiana P.E. License In Process*)
40-hour HAZWOPER (Hazardous Materials Field Work), since 2021
Fundamentals of Engineering Exam (FE), NCEES, 2022
ACI Concrete Field Testing Technician - Grade I (No. 02206940)

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, P.E., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheetpile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification. His work experience further includes core logging and oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. He is experienced with laboratory sample preparation and testing as well as air sampling and soil gas sampling.

Mr. Bryson recently passed his Louisiana Professional Engineering test and will be a noted P.E. for the State of Louisiana once he fulfills the apprenticeship requirements set forth by LAPELS.

Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below

TEC Professional Services Questionnaire

Other experience and qualifications: **Bryson S. Beard, E.I., ACI (continued)**

pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)

Barber Road Bank Stabilization, Paradis, St. Charles Parish, LA. Geotechnical engineering services for portions of the road that have failed or are failing into the ditch along Barber Road in Paradis, LA. Gulf South's scope includes drilling five borings (depth of 40 feet below ground surface), laboratory testing, engineering analyses (slope stability analyses, pavement design) and general construction procedures and recommendations. (\$12,000 (fee); 2022)

Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets. Scope included drilling a total of 10 undisturbed soil borings for the project (five borings within each roadway to a depth of 10 feet below the pavement surface). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/ or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Geotechnical Exploration Proposal: Off System Road Bridge Replacement, Lock No. 2 Road, St. Tammany Parish, LA. Geotechnical engineering services for the project which consists of the construction of a replacement bridge across an existing canal off Lock No. 2 Road in St. Tammany Parish. The new bridge will be pile supported and designed in accordance with DOTD standards. The scope of services included subsurface exploration, associated geotechnical laboratory testing, and engineering services based upon project requirements. Gulf South's scope includes field exploration (drilling of soil borings), laboratory testing, engineering analyses (pile load capacities, settlement estimates, flexible pavement design recommendations, sieve analyses of stream bed soils) and general construction procedures and recommendations. (\$12,500 (fee); 2022)

Brewster Road/LA 1077 Drainage Improvements, Madisonville, St. Tammany Parish, LA. Geotechnical engineering services for drainage improvements at the existing parish canal off LA-1077 and Galatas Road. Scope includes drilling five undisturbed soil borings to depths of 20 feet (2 locations) and 30 feet (3 locations) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$20,000 (fee); 2022)

Bayou Country Sports Park (Valhi Connector Road), Houma, Terrebonne Parish, LA. Geotechnical engineering services for the construction of a paved roadway alignment off Valhi Road and connecting existing paved roadway within Bayou Country Sport Park facility in Houma, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 10 feet below the ground surface, laboratory testing, engineering analyses (pavement design recommendations), and general construction procedures and recommendations. (\$4,000 (fee); 2019)

Level Street Overlay, Town of Abita Springs, St. Tammany Parish, LA. Geotechnical engineering services for the mill and overlay of Level Street (approx. 10,000 ft.). Scope included drilling 10 undisturbed soil borings to depths of 4 feet b.g.s., laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2023)

TEC Professional Services Questionnaire

Other experience and qualifications: **Joseph H. "Trey" Binder, III, ACI (continued)**

Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)

Earhart Expressway Lighting Improvements (Clearview Parkway to Central Avenue), Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, pile inspection, and concrete testing and inspection. (\$10,000 (fee); 2019)

West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$10,000 (fee); 2019)

Latigue Road Extension (Phase I; Live Oak Blvd. to Foundry Rd.), Jefferson Parish, LA. Geotechnical investigation for a new paved extension road (approx. 1,000 lf) between Live Oak Boulevard and Foundry Road in Jefferson Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 10 ft.), lab testing, and engineering analyses including flexible pavement design recommendations and general construction procedures & recommendations. (\$7,000 (fee); 2018)

Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA. Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations. (\$7,000 (fee); 2018)

Submerged Roads Program - Phase 3, Metairie, Jefferson Parish, LA. Perform asphalt and roadway testing and inspection as requested. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. Gulf South also provided asphalt batch plant inspection. (\$10,000 (fee); 2016)

David Dr. Drainage Improvements (W. Esplanade Avenue to Bruin Drive), Jefferson Parish, LA. Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations. (\$7,500 (fee); 2015)

TEC Professional Services Questionnaire

Other experience and qualifications: **Eric A. Paille, C.E.T. (continued)**

Submerged Roads Program - Phase 3, Metairie, Jefferson Parish, LA. Perform asphalt and roadway testing and inspection as requested. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. Gulf South also provided asphalt batch plant inspection. (\$10,000 (fee); 2016)

Submerged Roads Program: District 5, Project 1, Jefferson Parish, LA. Gulf South performed asphalt testing and inspection as instructed by the client. (\$12,000 (fee); 2013)

Submerged Roads Program – Phase 4, Metairie, Jefferson Parish, LA. Project consisted of the construction of new paving and roadways for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing concrete and asphalt testing and inspection, and earthwork testing and inspection including soil sampling and field density tests. (\$7,500 (fee); 2015)

Geotechnical Exploration Proposal for the Lafreniere Park Healthtrack, Metairie, Jefferson Parish, LA. Gulf South was selected to provide a Geotechnical Exploration for the project site which consists of the reconstruction of the existing exercise walkway and the addition of approximately 1,000 feet of new walkway at Lafreniere Park in Metairie, LA. The existing walkway is approximately 2.5 miles long and will consist of the removal and reconstruction of the pavement and base using an asphalt paved section. The new section will consist of a concrete paved walkway. Gulf South's scope of work includes subsurface exploration, associated geotechnical laboratory testing, and engineering services based upon outlined project requirements. (\$12,000 (fee); 2022)

Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA. Gulf South provided field and laboratory testing on a call-out basis during construction of the project (SCIP D55116) located at the intersection of Houma Boulevard and West Esplanade Avenue. Scope of services included vibration monitoring, concrete sample pick-up and inspection, pile monitoring, and laboratory testing. (\$10,000 (fee); 2021)

N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$20,000 (fee); 2021)

Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction of library renovations for the Jefferson Parish library along Metairie Road in Metairie, LA. Gulf South's scope of work included field density tests, earthwork inspection, welding and steel inspection, and concrete testing and inspection. (\$15,000 (fee); 2019)

Firehouse Road Sewer Force Main Replacement, Kenner, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction for a new sewer force main for Jefferson Parish in Kenner, LA. Gulf South's scope of work included field density tests, earthwork inspection, and concrete testing and inspection. (\$10,000 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Evan O. Poché
Engineering Technician

Project Assignment:

Engineering Technician

Name of Firm with which associated:



Years' experience with this Firm:

8 years (joined Gulf South in 2016); *Gulf South Engineering and Testing, Inc. | 2016 to present*
8 years total (2016) *BFM Corporation, LLC | 2019 to 2020*

Education: Degree(s)/Year/Specialization:

B.A., Political Science (2021; Millsaps College)
Degree Program, Criminal Justice (2016 - 2019; Mississippi College)
High School Diploma (2016; Jesuit HS; Cum Laude with Honors)

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Since joining Gulf South, Evan Poché has served as an engineering technician with the soil boring drill crew, within the soils' laboratory, and on construction projects as needed. His duties and responsibilities have included leading a drill crew, staking boring sites, supervising clearing contractors, data entry, testing soil for engineering properties of strength and classification, soil boring logging, vibration monitoring, and concrete testing and inspection. Laboratory tests performed include unconfined shear tests, moisture content tests, density tests, Atterberg limits tests, grain size sieve analyses, organic content tests and concrete strength breaks. He has also worked with BFM Corporation, Gulf South's sister company, as an Instrument Technician on Survey Field Crew, obtaining field survey data and cut lines of sight in high grass and wooded areas as needed.

Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)

Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new elevated generator platform. (\$7,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ian Kerner Poché, ACI
Assistant Laboratory Supervisor

Project Assignment:

Assistant Laboratory Supervisor

Name of Firm with which associated:



Years' experience with this Firm:

7 years (joined Gulf South in 2017); Gulf South Engineering and Testing, Inc. | 2017 to present
7 years total (2017)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

ACI Concrete Field Testing Technician (Grade I) (exp 2028 03)

Other experience and qualifications relevant to the proposed Project:

Ian Poché has worked in Gulf South's laboratory for several years and has experience with virtually every type of soil test. He has also helped when needed in the CMT department and has concrete testing experience, and is an ACI-certified Concrete Field Testing Technician.

Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)

New Orleans Streets Program (RR 010), Broadmoor Group A, City of New Orleans LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$54,081 (fee); 2023)

Magnolia Bridge Repair, New Orleans, LA. Gulf South provided construction materials testing during construction of the project. Services included vibration & pile monitoring and concrete testing & inspection. (\$4,000 (fee); 2019)

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Roosevelt Blvd Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, Louisiana</p> <p>City of Kenner c/o Hartman Engineering, Inc. 527 West Esplanade Ave Ste 300 Kenner LA 70065</p> <p>B.K. Sneed, 504-466-5667 bksneed@harteng.com</p>	Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2022	N/A	\$14,000 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Airline Park Boulevard Rehabilitation and Drainage Upgrade (West Napoleon to Camphor), Jefferson Parish, Louisiana</p> <p>Jefferson Parish c/o PECC 3702 Bienville Avenue, Suite C New Orleans LA 70119</p> <p>John Shires, P.E., 800-749-2810 jshires@pecla.com</p>	Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor in Metairie, LA. Gulf South's scope of work included drilling four soil borings to depths of 15 and 50 feet, laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2015	N/A	\$8,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, Louisiana</p> <p>Ardurra Group, Inc. 3012 26th Street Metairie LA 70002</p> <p>Joe Becker, P.E., 504-454-3866 jbecker@ardurra.com</p>	<p>Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$8,500 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, Louisiana</p> <p>Jefferson Parish c/o Hatch Mott MacDonald 650 Poydras Street, Suite 2025 New Orleans LA 70130</p> <p>Many Heymann, P.E., 504-799-0437 many.heyman@hatchmott.com</p>	<p>Geotechnical investigation for new drainage improvements along Trudeau Drive at W. Metairie Blvd. in Metairie, LA. The improvements will consist of replacing existing box culverts within W. Metairie Canal with double barrel 7 ft. x 11 ft. culverts, approximately 300 linear feet. Gulf South's scope includes drilling two soil borings each to a depth of 50 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, slope stability analysis, rigid and/or flexible pavement design recommendations, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2015	N/A	\$8,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Airline Highway Street Lighting (Waldo St. to Transcontinental Dr.), Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Engineering 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123</p> <p>Ryan Breaux, P.E., 504-736-6514 rabreaux@jeffparish.net</p>	<p>Geotechnical investigation for new street lighting along the eastbound lane of Airline Highway from Waldo St. to Transcontinental Dr. in Jefferson Parish, LA. Scope of work included drilling 7 soil borings each to a depth of 50 feet, laboratory testing, and geotechnical engineering analysis consisting of allowable pile load capacities, estimates of settlement, slope stability analyses, and general construction recommendations. Pavement coring and a police escort were required for the borings.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	N/A	\$17,500 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>New Roundabout (Lowe's Ave at LA Hwy 44), Gonzales, Ascension Parish, Louisiana</p> <p>Ascension Parish c/o Meyer Engineers, Ltd. 4937 Hearst Street, Suite 1B Metairie LA 70001</p> <p>Kenneth Belou, P.E., 504-885-9892 kbelou@meyer-e-l.com</p>	<p>Geotechnical engineering services for the construction of a paved roundabout at the intersection of Lowe's Avenue and Louisiana Highway 44 in Ascension Parish, LA. Gulf South's scope includes drilling four undisturbed soil borings (3 borings through existing pavement and 1 boring within an unpaved area) to depths of 10 feet below the ground surface, pavement coring, traffic control, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2023	N/A	\$9,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Latigue Road Extension (Phase I; Live Oak Blvd. to Foundry Rd.), Jefferson Parish, Louisiana</p> <p>Jefferson Parish c/o ECM Consultants, Inc. 4409 Utica Street Suite 200 Metairie LA 70006</p> <p>Sunina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p>	<p>Geotechnical investigation for a new paved extension road (approx. 1,000 lf) between Live Oak Boulevard and Foundry Road in Jefferson Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 10 ft.), lab testing, and engineering analyses including flexible pavement design recommendations and general construction procedures & recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2018	N/A	\$7,000 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Green Acres Road – New Street Lighting, Metairie, Jefferson Parish, Louisiana</p> <p>Jefferson Parish c/o Pivotal Engineering, LLC 1515 Poydras St Ste 1875 New Orleans LA 70112</p> <p>Yoseph Shifare, P.E., PTOE, PMP 504-799-3653 yshifare@pivotaleng.com</p>	<p>Geotechnical investigation for construction of a new street lighting along Green Acres Road (Airline Highway to West Metairie Boulevard) in Metairie, LA. Gulf South's scope includes drilling two undisturbed soil borings (depths of 24 ft), lab testing, and engineering analyses including subsoil properties, and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2019	N/A	\$4,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, Louisiana</p> <p>Jefferson Parish c/o Rahman & Associates, Inc. 3645 Williams Blvd Ste 208 Kenner LA 70065</p> <p>Tafoor Hameed, P.E., 504-469-0022 tafoor@bellsouth.net</p>	<p>Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2015	N/A	\$7,500 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Marsh Road New Fill Embankment, Des Allernands, Lafourche Parish, Louisiana</p> <p>Providence Engineering and Environmental Group, LLC 1201 Main Street Baton Rouge LA 70802</p> <p>Gary Leonards, P.E., 225-766-7400 garyleonards@providenceeng.com</p>	<p>Gulf South is undertaking a geotechnical investigation for the project, which will consist of a new earthen roadway embankment (approximately 22,000 linear feet) over swamp and marshland terrain (Cypress Forest Swamp) northwest of Des Allemands, Lafourche Parish, LA. The project notes that the proposed roadway will be 22 feet wide and elevated 1.5 to 2 feet above project design water level. For the project, Gulf South will drill at total of five undisturbed soil borings. Geotechnical laboratory testing is to be performed on selected samples collected during the exploration. Following the collection of the field and laboratory data, a geotechnical engineer will perform the evaluations necessary to characterize the subsoil conditions of the site and develop engineering recommendations and analyses.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2023	N/A	\$80,000 (fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<div style="border: 1px solid black; padding: 10px; margin: 0 auto; width: 80%;"> <p><i>Gulf South is not involved in litigation with Jefferson Parish.</i></p> </div>	
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.



CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Gulf South Engineering and Testing, Inc. (Gulf South) is a **geotechnical engineering and construction materials testing and inspection company** which began operations in 2011. Since that time, we have grown to two offices and over two dozen employees. Gulf South provides a broad range of geotechnical related services, completing more than 100 geotechnical engineering projects and 300 construction materials testing and inspection projects each year. These projects typically include soil borings (shallow and deep borings), laboratory testing (AASHTO, ASTM methods, etc.), soil classification (USCS), geotechnical engineering, and construction material testing and field inspection.

Gulf South is a woman-owned, Hudson Initiative-certified & Regional Transit Authority-recognized small business in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.

TEC Professional Services Questionnaire

N. continued.

Geotechnical Engineering Services

Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., a founding principal and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi, has specific and extensive training & experience in geotechnical engineering. He has three decades of experience in planning, administering, and conducting geotechnical investigations.

The firm has specific engineering experience and training in Geotechnical Engineering, Foundation Design, and Geology & Geohydrology; our staff has extensive experience in all aspects of soil mechanics and geotechnical engineering with specific knowledge in the following areas:

- Shallow and deep foundations (piles, shafts, augercast, screw/anchor piles)
- Deep excavations, cofferdams, retaining walls
- Levees and soft ground construction; slope stability & seepage
- Earthwork; settlement analyses
- Shoreline protection
- Scour analyses
- LRFD Design
- Mechanically Stabilized Earth (MSE) Walls
- Development of load test programs
- Geotechnical instrumentation and construction monitoring
- Canals and pump station foundations
- Pipe bedding and backfill
- Roadways, bridges, pavements

Field Investigation Services

Gulf South owns truck mounted (ARDCO C-1000) and track mounted (ARDCO SD 350) drilling rigs with associated and appurtenant support equipment (water trucks and buggy). Our equipment and crews are capable of drilling soil borings to depths of up to 300 feet and installing monitor wells, piezometers, and inclinometers. We can also perform CPT soundings, geoprobe borings, and field testing at any site. Our staff has extensive experience in planning, oversight, and direction of field investigations.

Laboratory Testing Services

Gulf South's laboratory is equipped to serve the specific needs of our clients and managed by trained and experienced personnel. All testing is performed in accordance with ASTM, AASHTO, and/or other approved procedures. Gulf South routinely performs soil and concrete strength testing (unconfined and triaxial), soil classification tests (Atterberg limits, moisture content, density, particle size), soil and aggregate sieves, organic content, pH, soil resistivity, and moisture/density relationships (Proctor tests). Gulf South's laboratories are managed by full time, experienced, managers and staff. Further, Gulf South's Kenner laboratory is AASHTO and CCRL certified and USACE validated.

TEC Professional Services Questionnaire

N. continued.

Construction Materials Testing & Inspection

Gulf South provides a full range of construction materials testing and inspection services for structures, earthwork, foundations, pipelines, and pavements. The range of services provided includes:

- Fill and base compaction and density testing
- Vibration monitoring
- Pre- and post-construction inspection
- Concrete testing and inspection
- Soil testing (field and laboratory)
- Asphalt testing
- Pile (driven & augercast) and shaft installation monitoring
- Load tests
- Earthwork/proof roll inspection
- Welding inspection
- Steel inspection
- Noise monitoring
- Prepare daily field reports and/or field books
- Maintain records per the client's directive

We have provided construction testing and oversight for projects as small as fill for a house pad to **as large as the \$1.2 billion Louis Armstrong New Orleans International Airport North Terminal project.**

CRITERIA 2 | SIZE OF FIRM

At over 30 employees, Gulf South has the appropriate number of employees and personnel for this project. We will complete our scope of services on time and within budget. Further said, Gulf South can readily meet the time and budget constraints for projects assigned to this contract. Our current workload is such that we can expeditiously complete projects for this contract.

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. Founding principal and Vice President of Gulf South, Chad M. Poché, P.E., has been a practicing registered geotechnical engineer in South Louisiana for since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

As evidenced in the provided projects & personnel résumés, key personnel past experience includes the completion of thousands of projects in the region throughout their careers for a broad range of clients, including both the government and private sectors. We are able to submit data in formats acceptable and customized to our clients' needs.

TEC Professional Services Questionnaire

N. continued.

Further, Gulf South continues to expand its staff and mentor the next generation of geotechnical engineers and professionals. One of our newest employees, Sara E. Lockwood, is a recent UNO Civil Engineering graduate who is working with our seasoned professionals in the challenging field of geotechnical engineering in the State of Louisiana. She has already gained extensive experience working on projects since joining the firm in 2019 and will continue to expand her knowledge and skill set working with our firm.

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

Gulf South has worked both directly and indirectly for various Jefferson Parish Departments (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. This would include, but not be limited to, the following:

- *New Building and Paved Areas, Jefferson Parish Transit Facility, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Training Facility (New Airnasium), Jefferson Parish Fire Dept., Bridge City, Jefferson Parish, LA*
- *New Library Building (US90 & Avondale Garden Road), Avondale, Jefferson Parish, LA*
- *Jefferson Parish Fire Fleet Maintenance Facility - New Paved Areas, Jefferson Parish, LA*
- *Harvey Volunteer Fire Department New Truck Maintenance Facility, Harvey, Jefferson Parish, LA*
- *New Charter School – Behrman Highway, Terrytown, Jefferson Parish, LA*
- *Jefferson Parish Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA*
- *Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA*
- *Jefferson Parish Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA*
- *N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA*
- *Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Westgate Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA*
- *Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA*
- *Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA*
- *Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA*
- *David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA*
- *Earhart Expressway (Clearview Pkwy to Central Ave) Lighting Improvements, Jefferson Parish, LA*
- *West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA*
- *Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA*
- *New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA*
- *St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA*
- *Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA*

Beyond the projects included within this form, additional project information (including listings, background, & client contacts) are available upon request. We have also completed similar services for Public and Private concerns throughout the region.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

Gulf South is headquartered in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner, LA; we also maintain a branch office in Gonzales, LA. We have the appropriate number of employees and personnel for this contract and will complete our scope of services on time and within budget; our current workload is such that we can expeditiously complete tasks assigned under this contract. All work and revenue for our team is performed by Louisiana residents and remains in Louisiana.

CRITERIA 6 | LEGAL STATEMENT

See *Item M*; Gulf South has not been involved in litigation with Jefferson Parish.

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. We are proud that a majority of our work is from repeat clients – we complete our projects on-time and within budget. Gulf South invites you to contact any of our clients for a candid discussion of our service and professionalism, and offer these direct references:

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Ben Lepine, Acting Director, Drainage Department, Jefferson Parish
(504-736-6751 | JPDrainage@jeffparish.net)

Angela DeSoto, P.E., Director, Engineering Department, Jefferson Parish
(504-736-6511 | ADeSoto@jeffparish.net)

Mark R. Drewes, P.E., Director, Public Works Department, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Sid Trouard, P.E., Program Manager, Sewerage Capital Improvement Program, Jefferson Parish
(504-736-6386 | STrouard@jeffparish.net)

Michael B. Cooper, Parish President, St. Tammany Parish
(985-898-2362 | president@stpgov.org)

Joey Tureau, Director of Transportation, Ascension Parish
(225-450-1013 | jtureau@apgov.us)

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.us)

Khalid L. Saleh, PhD, Capital Program Administrator, Public Works Dept., City of New Orleans
(504-658-8000 | khsaleh@nola.gov)

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: January 22, 2024

Section Four

Pivotal Engineering – SOQ Packet

SOQ – Table of Contents

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4. Team Profiles & Experience.....	4 – 1

QUALIFICATION CONTENT

Section 1: Introduction

Completing engineering projects in the Greater New Orleans area requires a unique blend of technical experience, well-developed understanding of local environmental conditions and sensitivity to community stakeholders. The **Pivotal Engineering, LLC - Gulf South Engineering & Testing, LLC – BFM Corporation** - team (herein referred to as “Team” or “The Team”) is an assembly of firms with a proven track record in delivering quality design, construction and inspection services. The reputation of each firm stands alone as a leader in their respective disciplines. For each project, maximum attention will be given to the technical, social, environmental, and innovative aspects of design, installation, and maintenance.

The foundation of this team is comprised of both their well-established working relationship and the comprehensive skill set they have collectively. Each firm brings a strong background in one or more of the following disciplines:

- Civil Engineering
- Environmental Engineering
- Structural Engineering
- Landscape Architecture
- Mechanical Engineering
- Electrical Engineering
- Construction Management
- Geotechnical Engineering
- Construction Inspection
- Topographic Surveying

Under these disciplines, each firm brings strong technical skills not only in the fundamental of engineering design and landscape architecture, but in the latest trends, approaches and software needed for modern solutions. The Team is well established in database management, geographic information systems (GIS), hydrologic/hydraulic modeling, computer-aided design and real-time monitoring equipment. Our Team’s capabilities will provide Jefferson Parish with the most effective and efficient approach for providing professional traffic engineering services for the Department of Public Works on an as-needed basis.

As guiding values, The Team strives for open communication and continual improvement. With each project, internal processes and methodologies are revised to ensure that planning, design and decision-making conversations are facilitated with efficiency and effectiveness. Each concept is vetted with considerations for innovation, resiliency, added value and technical feasibility. Engineering design must encompass classical theory, industry standards, modern technology and a touch of revolution.

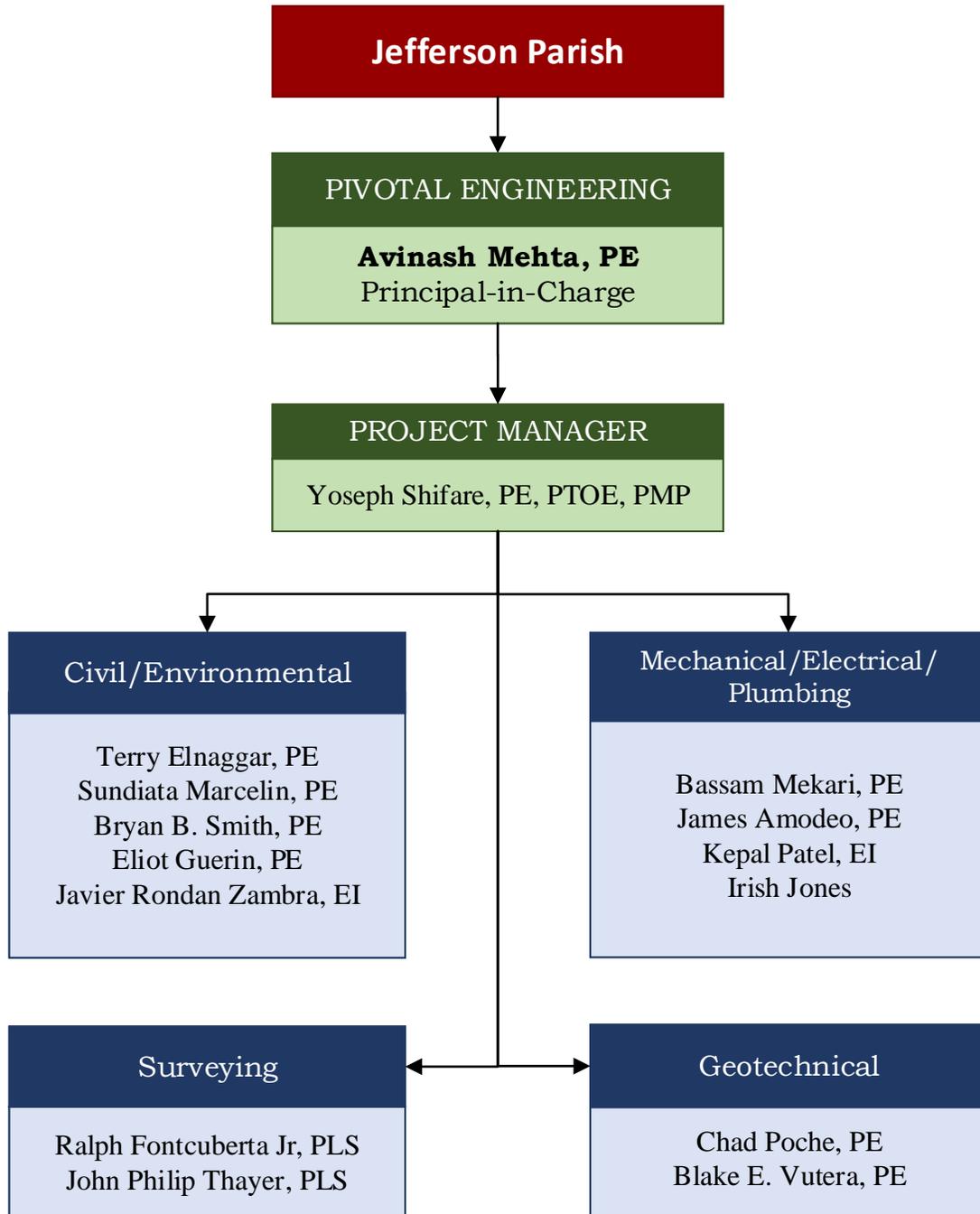
Our integrated Team will provide an optimized concurrent engineering environment that provides an opportunity to substantially reduce the design time and total cost of a project. Our integrated Team includes with skilled members from the various disciplines, which enables a simultaneous contribution to an early project definition and increased likelihood of reduced lifecycle cost. Our team is well positioned to avoid costly alterations later in the design process.

Our **management** team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that each project is managed successfully, on time, and within budget and schedule.

Our Team is committed to defining the project and setting expectations as our first step toward making that project a success. We, as a team, will apply various techniques for project estimation and cost control including:

- Setting Expectations Early, Review Often
- Planning the Project Budget
- Keeping Track of Costs
- Establishing a Communication Plan
- Maintaining Effective Time Management
- Implement Project Change Control
- Use of Earned Value to Monitor Both Cost and Schedule

Organizational Chart



Section 3: Personnel Qualifications

Pivotal's Key Personnel have proven excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction.

The majority of the teams's staff has extensive design as well as construction experience. This advantage minimizes contractor change orders, expedites project schedules and improves project details. Our Engineers have great track records with helping our clients meet compressed deadlines while eliminating unnecessary expenses yet delivering better than the intended product. We have also proven to our clients our added "Value Engineering" on several projects, which resulted in direct savings of hundreds of thousands' dollars.

Principal

Avinash Mehta, PE
Principal – Client Relations

Education

M.S. Civil Engineering, University of Central Florida, 2003

B.S. Civil Engineering, NMU – India, 2000

Professional Associations

LA PE # 35100

Experience

Mr. Mehta serves as a Principal of Pivotal Engineering. Mr. Mehta has over 18 years of experience managing civil and

environmental engineering projects including project budget, schedule and scope, coordination of resources, business development and client liaison activities. His experience includes the project management for A&E projects, process and design, civil engineering, water and wastewater engineering, drainage design and permitting, wastewater system design, potable water system design, conceptual planning, and design for coastal restoration projects.

Project Manager

Yoseph Shifare, PE, PTOE
Project Manager/Sr. Civil Engineer

Education

M.S. Civil Engineering, University of Louisville, Kentucky, 2014

B.S. Civil Engineering, University of Asmara, Eritrea, 2001

Professional Associations

LA PE # 42747 LA PTOE

Experience

Mr. Shifare serves as a Project Director of Pivotal Engineering in charge of Civil/Transportation engineering projects. He has over 19 years engineering, project and construction management experience for public infrastructures, industrial, commercial and private facilities. As a project director he designs, lead and manage the day-to-day efforts of engineers on projects that include roadway, traffic, drainage/storm water management, water and wastewater, and landfills. He is responsible to client liaison, manage the strategic aspects of project engagement, review high-level project deliverables, provides leadership, project

accounting and ensures the engineering practice meets or exceeds industry standard.

Civil/Environmental Engineering

Tarek Elnaggar, PE
Senior Environmental Engineer

Education

M.S. Civil Engineering, University of California, Berkley, 1988

B.S. Civil Engineering, Louisiana State University, 1985

Professional Associations

Louisiana/Civil/Environmental Engineering/23832

Texas/Civil/Environmental Engineering/85089

Mississippi/Civil/Environmental Engineering/14839

Experience

Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His 30 years of experience includes project management and design work in roadways, drainage, sewer, earthen levees, floodwalls, floodgates, and pump stations. He has performed multiple engineering projects for public and private clients on the local, state, and federal level. He has also served on the construction program management side with both municipal, and industrial clients, providing oversight of projects designed by other consultants, providing design reviews and coordination between the consultant and the multiple other agencies involved. His experience includes design and construction management for civil and environmental projects including municipal and industrial solid waste permitting, risk assessments,

water permitting and compliance, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, and permitting.

Bryan B. Smith, PE
Environmental Engineer

Education

MS / 2014 / Civil and Environmental Engineering

BS / 2011 / Environmental Engineering

Professional Associations

LA PE # 0043843/ 2019

Experience

Mr. Smith serves as a project engineer at Pivotal Engineering, LLC in support of civil and environmental engineering projects. His projects range from public to private sector and require effort in both the field and the office. He has experience in infrastructure design, project management, permitting, field sampling, flow rate testing and laboratory analysis.

Eliot Guerin, PE
Civil Engineer

Education

B.S. / 2018 / Civil Engineering

Professional Associations

LA PE #0047729 / 2023 / Civil Engineering

Experience

Mr. Guerin is a Civil Engineer with 3 years of experience at Pivotal Engineering, focusing on roadway, sanitary sewer, and storm drainage design. His project experience include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and

grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater, and landfills. He is a very competent design engineer, and hydraulic & water quality modeler, and has excellent CIVIL 3D skills.

Javier Rondan Zambra, EI **Civil Designer**

Education

M.S. Civil Engineering - 2021

B.S. Civil Engineering – 2018

Professional Associations

LA EI #035205 / 2022 / Civil Engineering

Experience

Mr. Rondan serves as a civil project engineer with over two (2) years of experience in the transportation sector with a special focus on highway design, construction, and maintenance. He is knowledgeable in traffic engineering design and operation. He is well versed in construction scheduling, means & methods for utility installations and green infrastructure integration.

Mechanical/Electrical/ Plumbing Engineering

Bassam Rossi Mekari, PE **Principal In Charge/ Senior Electrical Engineer**

Education

BS, Electrical Engineering, Louisiana State University 1987

MS in Electrical Engineering - 3 hours remaining

Professional Associations

LA PE # 31801, NFPA Member, ASHRAE Member, American Military Engineers

Experience

Mr. Mekari serves as a Principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has over 28 years of experience in designing and installing electrical distribution systems for public, commercial, and industrial facilities such as schools, fire stations, justice centers, police stations, street lights, lift stations, PLC automations and thermal reactors. He also designed/built electrical installations throughout the US and worldwide. Mr. Mekari has designed over 100 electrical systems and will be instrumental in the overall electrical design and project management.

James Amodeo, PE **Senior Mechanical Engineer**

Education

B.S. Mechanical Engineering, S.U.N.Y at Stony Brook, Stony Brook, New York

Professional Associations

Louisiana / Mechanical / 36489

Colorado / Mechanical / 36652

Experience

Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. He has over 18 years of experience in designing and specifying mechanical and plumbing systems for municipal, industrial, commercial, process and manufacturing applications of all magnitudes. Mr. Amide is an ASHRAE Member, NSPE Member, and ASME Member.

Kepal Patel, EI
Electrical Engineer Intern

Education

B.S. Electrical Engineering/University of New Orleans

Professional Associations

LA EI # 34453 / Electrical Engineering

Experience

Mr. Patel serves as an Electrical Designer for Pivotal Engineering. Mr. Patel designing experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on several JP streetlight projects and his role requires Voltage Drop Calculations, Conduit sizes, Wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.

Irish Jones
Electrical Designer

Education

5 years of college in Electrical Engineering – University of Texas at Arlington

Experience

Mr. Jones serves as the senior electrical designer of Pivotal Engineering. He has over 40 years of experience in designing electrical installations (power distributions) for industrial and commercial applications of all magnitudes. He obtained his first-Class A electrical license in 1967 in Georgia. Being an electrical contractor for over 40 years, Mr. Jones has developed an extensive experience in not only designing and laying out electrical designs, but also in supervising the installations in the construction phase. His expertise allows the team to provide the

BEST and MOST ECONOMICAL Electrical Design for any facility. Due to his experience as an electrician and a contractor, Pivotal will not need to depend on the In-plant electrician while conducting the electrical components field investigations.

Geotechnical Engineering

Chad M. Poché, P.E. (Gulf South)
Geotechnical Engineer

Education

M.S., 1998, Civil Engineering, University of New Orleans

B.S., 1993, Civil Engineering, Louisiana State University

Professional Associations

1998, Civil Engineer, Louisiana No. 27667

2002, Civil Engineer, Mississippi No. 15405

Experience

Mr. Poché is the Vice President, co-founder, and partner in Gulf South. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career. Further, Mr. Poché is a Member-at-Large of the American Council of Engineering Companies of Louisiana. Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility

permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

Blake E. Vutera, PE (Gulf South) Geotechnical Engineer

Education

M.S., 2018, Civil Engineering, University of New Orleans

Certification - Coastal Engineering, 2018, University of New Orleans

B.S., 2008, Civil Engineering, Louisiana State University

Professional Associations

2013, Civil Engineer, Louisiana, No. 38607

2018, Professional Engineer, Texas No. 129410

Experience

Mr. Vutera serves as Gulf South's Engineering Manager and is based in Gulf South's Kenner, LA office. His experience with the firm includes daily work on geotechnical engineering projects as well as managing all geotechnical investigations and providing assistance with laboratory testing and construction materials testing and inspection. Engineering analyses that Mr. Vutera routinely performs include: shallow and deep foundations, slope stability analyses, settlement estimates, and pavement design. He is responsible for engineering design, report preparation, proposal preparation, personnel management, project management, and client interaction. Mr. Vutera's field work consists of borehole

logging; installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); pavement coring; nuclear field density tests; and hand augers. Mr. Vutera has been the geotechnical engineer of record for hundreds of projects throughout his career.

Land Surveying

Ralph Fontcuberta Jr, PLS (BFM) Professional Land Surveyor

Education

Coursework, Building, Delgado College, New Orleans

Coursework, Math, University of New Orleans

Professional Associations

1974, Professional Land Surveyor (Louisiana Lic. No. 4329)

1974, Professional Land Surveyor (Mississippi Lic. No. 1633)

Experience

Ralph P. Fontcuberta, Jr., PLS has provided services on an almost incalculable number of surveying projects throughout southeastern Louisiana in the past half century and has been a registered Professional Land Surveyor (PLS) since 1974. He is thoroughly knowledgeable in all aspects of surveying: topographic, hydrographic, boundary, right-of-way surveying, and all facets thereof. He has provided surveying services for residential, plant, and industrial layout projects, ranging from small private lots & buildings to multi-million-dollar programs, including the New Orleans FEMA Streets/ Recovery Roads Program. Since the beginning of his career, his work has entailed computations, drafting, and field work for

various industrial, commercial, municipal, and private clients. Projects have included topographic surveying needed for a wide variety of engineering, architectural, construction, and other related endeavors. This work has included projects for numerous branches of virtually every regional city/parish/town government, multiple State agencies, Federal agencies, private/public companies, and numerous other public/private entities.

John Philip Thayer (BFM)
Field Operations Supervisor

Education

B.S., 2007, Physical Education, Trevecca Nazarene University

Professional Associations

Professional Land Surveyor Registration in process, State of Louisiana

Experience

Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.

Section 4: Specialized Experience

Pivotal is a full-service engineering design firm based in New Orleans, Louisiana. Pivotal has established a reputation for providing superior service to its clients and delivering quality work on time and within budget. Pivotal's principals and staff have in excess of 200 years of combined experience in architectural, civil, mechanical, electrical, structural, environmental engineering, construction management, construction inspection and program /project management for both public and private entities across the Gulf South Region.

Pivotal Engineering is currently providing these engineering and management services to many municipalities and state agencies in the region including; The City of New Orleans, Jefferson Parish, The City of Shreveport, The City of Kenner, St. Charles Parish, and St. John Parish. These services have also been provided to private clients such as Entergy, Waste Management, and private developers. Pivotal Engineering has in depth understanding of local, state, and federal governmental agencies procedures and regulations.

Pivotal has worked with private developers and government agencies to help deal with the challenges of economic revitalization, infill development and brownfield reclamation in order to accommodate the growing infrastructure needs of urban cities. Our primary focus begins with assisting public sector agencies and private development companies to effectively plan to accommodate growth in an environmentally sustainable manner. We have assisted urban renewal projects throughout all stages of project development including: analyzing zoning issues, planning commission interaction, conducting public hearings, and fostering community visioning and support.

Pivotal is a certified Small Business Enterprise with both the Small Business Administration and the New Orleans Regional Transit Authority. Furthermore, Pivotal is a Disadvantaged Business Enterprise with Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport, Harrah's New Orleans Casino & Hotel, and the Housing Authority of New Orleans (HANO). Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

Experience with similar projects:

Pivotal Engineering team includes senior civil and environmental engineers and technicians with extensive experience and excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction. Proven with experience, Pivotal is routinely retained by Fortune 500 companies and government agencies to provide compliance solutions.

Pivotal's engineers have with extensive experience and excellence in performing roadway and bike trail design including street vertical and horizontal geometry, drainage, water, sewer based on the requirements set in CNO, S&WB, LDOTD, AASHTO, FHWA and ADA requirements and standards. In addition, Pivotal Engineers have extensive experience in water and wastewater design, environmental site assessments, remediation, air, waste and water permitting and compliance, environmental Study services for a Categorical Exclusion ("CE"), Record of Environmental Considerations ("REC"), site-specific Environmental Assessment ("EA") in accordance to the National Environmental Policy Act ("NEPA"). Additional experience includes asbestos and lead inspections and the development of abatement plans.

We ask that you note the following projects that represent the specialized experience under the category of design engineering service:

Traffic/Roadway Projects

(1) Kumar's A-1 Stop Traffic Impact Analysis at 9003 Lockhart Rd., Denham Springs, LA

Pivotal was retained to evaluate the impacts of the proposed mixed-use development on the intersection of LA 1026 (Lockhart Rd) at LA 1030 (Cockerham Rd) / Linder Rd and at the proposed driveway entrances.

Data Collection
Trip Generation and Distribution
Intersection Analyses (HCS and Sidra)
Turn lane analysis
Report and Recommendations



(2) Food Mart Traffic Impact Analysis at LA 16, Destrehan, LA

Pivotal was retained to evaluate the impacts of the proposed mixed-use development on the intersection of LA 16 and LA 441, LA 1036/Livingston St @ LA 441 and LA 16 @ LA 43/Durbin Road

Data Collection
Trip Generation and Distribution
Intersection Analyses (HCS)
Turn lane analysis
Report and Recommendations



(3) Clearview Airline Intersection Improvements, Jefferson, LA

- Roadway Paving and Curb Design
- Traffic signal design
- Permanent traffic signs and striping
- Subsurface Drainage
- Construction Management

Pivotal was retained by Jefferson parish for the design of Clearview-Airline Intersection Improvements project.

The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, traffic signal system, permanent traffic signs and striping, along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

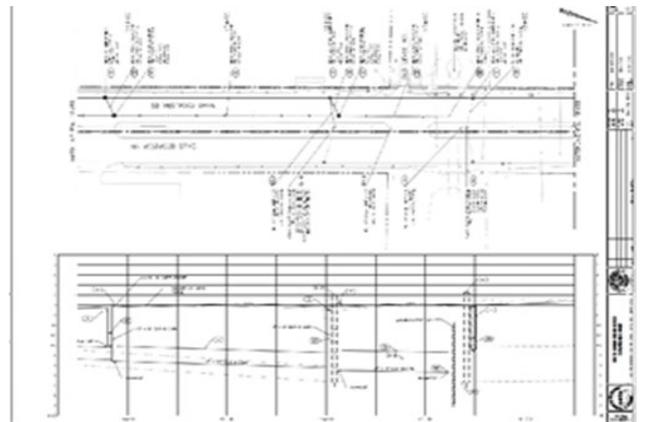


(2) Southbound Westwood Dr. Rehabilitation, Jefferson, LA

- Roadway Paving and Curb Design
- Traffic signal design
- Permanent traffic signs and striping
- Subsurface Drainage
- Construction Management

Pivotal personnel were retained by Jefferson parish for the design of Southbound Westwood Drive from the Westbank Expressway to Lapalco Blvd.

The project entails rehabilitation of existing Westwood Drive, which includes removal and replacement of existing PCCP roadway, traffic signalization, permanent traffic signs and striping, installation of additional subsurface drainage and modification of existing subsurface drainage, and installation of new sidewalks, handicapped ramps, and driveways as needed.



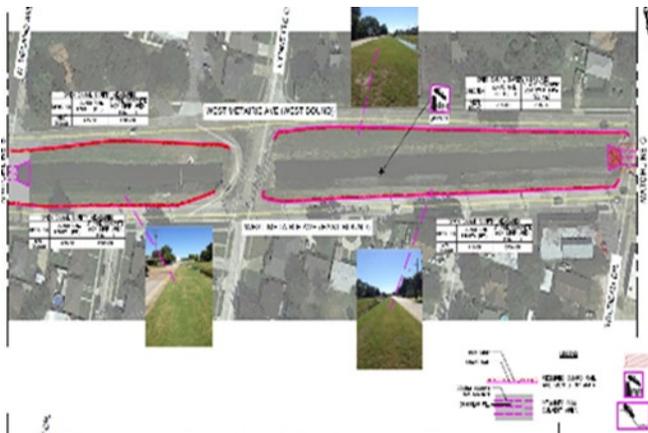
(3) Study of Safety Measures for Major East Bank Roadways, Jefferson Parish, LA

- Traffic Safety Guardrail Analysis
- Drainage Analysis
- Traffic Accident Analysis
- Traffic Safety Measure Recommendations

Pivotal personnel were retained by Jefferson Parish to perform the Traffic Study of Safety Measures for Major East Bank Roadways Adjacent to Open Canals. The project entailed a detailed site traffic investigation and documentation of each open canal section bank top width on plans with supporting photographs. Plans also show the recommended traffic safety improvements as well as the location of traffic accidents for all four segments. Drainage for analysis of the required open canal and box culvert section to accommodate a 10 year design storm were performed.

The proposed traffic safety measures analyzed include guardrail, embankment widening, and box culvert as a closed drainage conduit. The analysis included cost estimate and projected cost benefit analysis.

In addition, as a traffic safety measure, the existing median side edge line striping was suggested to be removed and a raised pavement markers be installed for all segments where new guard rails are recommended.



(4) Wright Rd. Improvements, New Orleans, LA

- Roadway Paving and Curb Design
- Subsurface Drainage and Sewer Design
- Permanent traffic signage
- Construction Management

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, permanent traffic control, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

- Reviewed the required topographical survey of existing site conditions prior to start of design phase.
- Designed new drainage network for a 10 years return period.
- Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designed new water main and located it on the median.
- Designed new street permanent traffic control
- Coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The project was valued at \$9 million.



(5) Pritchard Rd. Extension, Jefferson, LA

Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

1. Remove and replace existing 20 ft wide concrete roadway and replace with 26ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
2. Remove and replace existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
3. Relocated existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box is designed for 10 years storm period.
4. Existing 10” and 18” SFM were required to be vertical and horizontal offset.



The execution and delivery of this project demonstrates that Pivotal engineer’s expertise on

the following required criteria of specialized experience and technical competence:

- ✓ Louisiana Standards for Roads & Bridges
- ✓ FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements
- ✓ Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.

(6) Napoleon Avenue Box Culvert, New Orleans, LA

Pivotal personnel were retained by the Sewerage & Water Board of New Orleans through Schrenk & Peterson Engineering to coordinate and design the utility relocation plans and specifications.

Pivotal personnel were also responsible for review and approval of required topographical survey of existing site conditions prior to start of design phase.

Pivotal personnel designed new reinforced concrete box culvert along Napoleon Avenue between Constance Street and Carondelet Street in New



Orleans, LA, and also designed box culvert crossings at St. Charles Avenue/Napoleon Avenue intersection, which is one of the busiest intersection in the Metropolitan New Orleans area.

Pivotal personnel coordinated all efforts with various private & public utility companies, state & local agencies for the safe and expedient relocation of their existing facilities that conflicted with proposed construction. The project is valued at \$50,000,000.

The execution and delivery of this project demonstrates that Pivotal engineer’s expertise on

the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(7) RR016 BW Cooper, Gert Town Dixon Group C, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs 9 blocks (3245 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design is required to meet rehabilitation goals set by FEMA and CNO as well as the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase; and for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. The project was federally funded.

The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*

- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(8) RR017 BW Cooper, Gert Town Dixon Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design is required to meet rehabilitation goals set by FEMA and CNO as well as the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. This project was federally funded.

The execution and delivery of this project demonstrates that Pivotal engineer's expertise on

the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(9) RR018 BW Cooper, Gert Town Dixon Group E, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 15 blocks (6.075 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design is required to meet rehabilitation goals set by FEMA and CNO as well as the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(10) RR019 BW Cooper, Gert Town Dixon Group F, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 6 blocks (2,100 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design is required to meet rehabilitation goals set by FEMA and CNO as well as the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ Louisiana Standards for Roads & Bridges
- ✓ FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements
- ✓ Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines

(11) RR076 Lake Vista Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 5 blocks (1,750 ft) in the neighborhood of Lake Vista. This design is required to meet rehabilitation goals set by FEMA and CNO as well as the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ Louisiana Standards for Roads & Bridges
- ✓ FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements
- ✓ Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.

(12) RR034 E. Carrollton Group C (Adams St.), New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 8 blocks (4,936 ft) in the neighborhood of Adams St. This design is required to meet rehabilitation goals set by FEMA and CNO as well as the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project. Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.



The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ Louisiana Standards for Roads & Bridges
- ✓ FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements
- ✓ Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.

(13) RR203 Gentilly Terrace South Group K, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway patch, mill and overlay reconstruction improvement). The project entails roadway rehabs to Gentilly Terrace neighborhood. This design is required to meet rehabilitation goals set by FEMA and CNO as well as the water line replacement program set by S&WB. The project also included design of mill and overlay reconstruction, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ Louisiana Standards for Roads & Bridges
- ✓ FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements
- ✓ Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.

(14) RR138 Plum Orchard-West Lake Forest Group B, New Orleans, LA

Pivotal was retained by City of New Orleans for repaving the asphalt roadway from curb-to-curb, replacing damaged portions of concrete with new concrete, patching the roadway with asphalt, repairing damaged sidewalks and driveway aprons, installing ADA compliant curb ramps at intersections, and replacing/repairing damaged underground water, sewer and/or drainage lines.



The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ City of New Orleans General Specifications for Street Paving
- ✓ Louisiana Standards for Roads & Bridges

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(15) Ramsey St. Improvements, New Orleans, LA

Pivotal personnel were retained to perform the design and construction supervision for the required improvements to Ramsey Street. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

Pivotal was also responsible for the following:

- Designing new drainage collection system that tied into an existing box culvert along adjacent intersection. This was necessary due to the re-occurrence of street flooding during any rain activity that takes place in this area.
- Designing new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designing new street for tie-in to major thoroughfare in the City of New Orleans.
- Coordinate all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.
- Construction Management of the overall construction of the above captioned work.

The project was valued at \$3,500,000.



The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(16) Labarre Rd. Railroad Crossing Drainage Improvement, Jefferson, LA

Pivotal was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Rd. Railroad Crossing Drainage Improvement. The major scope of the improvement includes:

1. The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp is being built within Parish right of way.



2. The boxes are designed to accommodate all of the existing drain lines in the area in order to preserve current drainage patterns at the crossing.
3. Construction of the box on the east required removal and replacement of ½ of Labarre Road and of the rail road crossing arm.
4. Construction requires deep sheeting, due to proximity of tracks, possibly a coffer dam.

5. Full width of Labarre will be milled and overlaid.

The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

Street Lighting Projects

(1) Cousins Blvd Street Lighting Improvement, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Cousins Blvd. Lighting Improvement (Oakmere Dr. to Woodmere Blvd.). The major scope of the improvement is installation of new street lighting system. These facilities are increasingly becoming hard to maintain and are also energy in-efficient. The proposed project intends to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 2600 ft (0.5 Mile) on Parish owned roadway
- b. Recommended pole spacing 140-150 ft
- c. Recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the south side of the roadway (canal side) , with 20-24” base
- d. Recommended LED lighting - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature
- e. Recommended 2 feed points (240 volt)
- f. Underground junction box (handholds) is not required. Instead, dual fuse holders shall be used.
- g. Recommended Helical street light foundation
- h. Wiring in directional bore conduit

(2) Jamie Blvd. & W. Tish Dr. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Jamie Blvd. and W. Tish Dr. Lighting Improvement (US 90 to Cambay Dr.). The major scope of the improvement is installation of new street lighting and retrofit existing street light system. These facilities are increasingly becoming hard to maintain

and are also energy in-efficient. The proposed project intends to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement includes but is not limited to the following:

- a. The following two roadways are included in scope
Jamie Blvd. (US 90 to Cambay Dr.)
W. Tish Dr. (US 90 to Cambay Dr.)
- b. Length of project is approximately 2000 ft (0.4 Mile) each roadway on Parish owned roadway
- c. Recommended pole spacing 140-150 ft
- d. Jamie Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Double Mast type installed on the median, with 20-24” base (Typ. 3 each)
- e. W. Tish Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the side of the road, with 20-24” base (Typ. 3 each)
- f. Both Jamie and W. Tish include retrofit existing street lighting by removing and replacing fixtures (Typ. 14 each).
- g. Recommended LED lighting fixture - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature
- h. Recommended 1 feed points (120 – 240 volt) for each roadway
- i. Recommended Helical street light foundation
- j. Wiring in a directional bore conduit

(3) Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Metairie Rd. Street Lighting Improvement (Bonnabel Blvd. to Orpheum Ave). The major scope of the improvement is installation of street lighting

system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 8,500 ft (1.6 Mile) on parish owned back of curb to property line right of way.
- b. Removal of existing metal pole street lights.
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20" base
- e. Recommended 100W LED lighting
- f. Recommended feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), Fixtures, and miscellaneous construction
- i. Requires Arborist service, tree protection, root pruning and trenching as necessary

(4) West Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the W. Metairie Ave. U-Turns Street Lighting Improvement (Roosevelt Blvd. to David Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. The following four W. Metairie Ave. intersections and U-turns are included in the scope.
 - Intersection of W. Metairie Ave. and David Drive
 - Intersection of W. Metairie Ave. and Lynnette Drive
 - Intersection of W. Metairie Ave. and N. Bengal Road
 - U turn on W. Metairie Ave. between N. Lester Ave and N. Howard Ave
- b. Recommended pole spacing 150 to 160 ft
- c. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20" base
- d. Recommended 100W LED lighting

- e. Recommended 1 feed points (120 – 240 volt) for each intersection
- f. Recommended Helical street light foundation
- g. Wiring (directional bore conduit), Fixtures, and miscellaneous construction.
- h. Median concrete removal, hydro seed grass, and new sidewalk, new ADA ramp

(5) Causeway Boulevard Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement is removal and replacement of existing lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 4,800 ft (0.9 Mile) on parish owned roadway.
- b. Remove and replace existing street lights (see attached map for approx. locations)
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended mounting height max. 40ft (recommended pole height 35 ft)
- e. Recommended LED lighting
- f. Recommended 3 to 4 feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(6) Green Acres Rd. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Green Acres Rd. Street Lighting Improvement (W. Metairie Ave. to Airline Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for

this improvement includes but is not limited to the following:

- a. Length of project is approximately 2,700 ft (0.51 Mile) on parish owned roadway.
- b. Recommended pole spacing 150 to 160 ft
- c. Recommended mounting height 16ft
- d. Recommended LED lighting
- e. Recommended 2 feed points (120 – 240 volt)
- f. Recommended Helical street light foundation
- g. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(7) Live Oak Street Solar Lighting Improvements, Jefferson Parish, LA

Pivotal will provide preliminary and final design phase services for design and construction plan preparation of the Live Oak Street Lighting Project (US 90 to S. Kenner Rd). The major scope of the improvement is installation of new solar street lighting system. As per the evaluation phase report, the following general design requirements are established:

- a. Length of project is approximately 18,500 ft (3.5 Mile) on Parish owned roadway
- b. Design based on product of Cypress Lighting Technologies, LLC
- c. Pole spacing staggered at 200ft
- d. Pole shall be installed at minimum 6 feet from the edge of travel lane
- e. Single 8 feet long arm shall be used
- f. Fixture mounting height shall be minimum 25 feet
- g. Fixtures shall be all-in-one solar LED Street light (100W) with a minimum 12V 42Ah Lithium battery
- h. Fixture shall be programmable to operate at 30% (30W) when traveling vehicle is not-detected and 80% (80W) when traveling vehicle is detected
- i. Fixture, solar panel and battery shall be warranted for 5 years

- a. and a proposed cost of construction. The scope of work includes structural improvements needed for a successful lift.
- b. Pivotal provided bid packages for each property based on information contained within the inspection report. Pivotal notified pre-qualified contractors from the Parish's pool via email.
- c. Pivotal assisted the Parish in the collection and tally of bids at final submission and provide a written recommendation of award upon review
- d. Pivotal conducted two (2) milestone inspections; 50% and 100% construction completion, during the course of construction. Each milestone inspection report will be accompanied by a report and progress photos. The reports also identified any construction related issues, proposed change orders and homeowner concerns.
- e. Upon substantial completion, punch list inspections is conducted on an as-needed basis and reported on the 100% construction inspection report.

Attachment A

Licenses

Louisiana Professional Engineering
and
Land Surveying Board

Hereby Certifies that

Pivotal Engineering LLC

*has complied with the regulation of this Board and is authorized
to provide or to offer to provide engineering services in the State of
Louisiana contingent upon payment of the annual renewal fee.*

Baton Rouge, Louisiana · 12/20/2012



License Number 5213

Amud Davari

Chairman
Jane E. Bawie Jr.

Secretary

Attachment B

Key Staff Licenses



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/25/2024 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Avinash Mehta
1201 Giuffrias Avenue
Metairie, Louisiana 70001

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	Mr. Avinash Mehta License/Certificate Type - Number Expiration Date PE.0035100 03/31/2024 Status: Active	
	<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/25/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Yoseph Yemane Shifare
63 Eugenie Court
New Orleans, Louisiana 70131

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Yoseph Yemane Shifare	
License/Certificate Type - Number	Expiration Date
PE.0042747	03/31/2025
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/25/2024 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Bassam Abdallah Mekari
1515 Poydras Street, Suite 1875
New Orleans, Louisiana 70112

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	Mr. Bassam Abdallah Mekari License/Certificate Type - Number Expiration Date PE.0031801 09/30/2024 Status: Active	
	<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/25/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Tarek Elnaggar
192 Forest Oaks Drive
New Orleans, Louisiana 70131

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	Mr. Tarek Elnaggar	
License/Certificate Type - Number	Expiration Date	
PE.0023832	03/31/2025	
Status: Active		

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/25/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. James Edward Amodeo
1511 Dublin Street
New Orleans, Louisiana 70118

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. James Edward Amodeo	
License/Certificate Type - Number	Expiration Date
PE.0036489	03/31/2024
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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